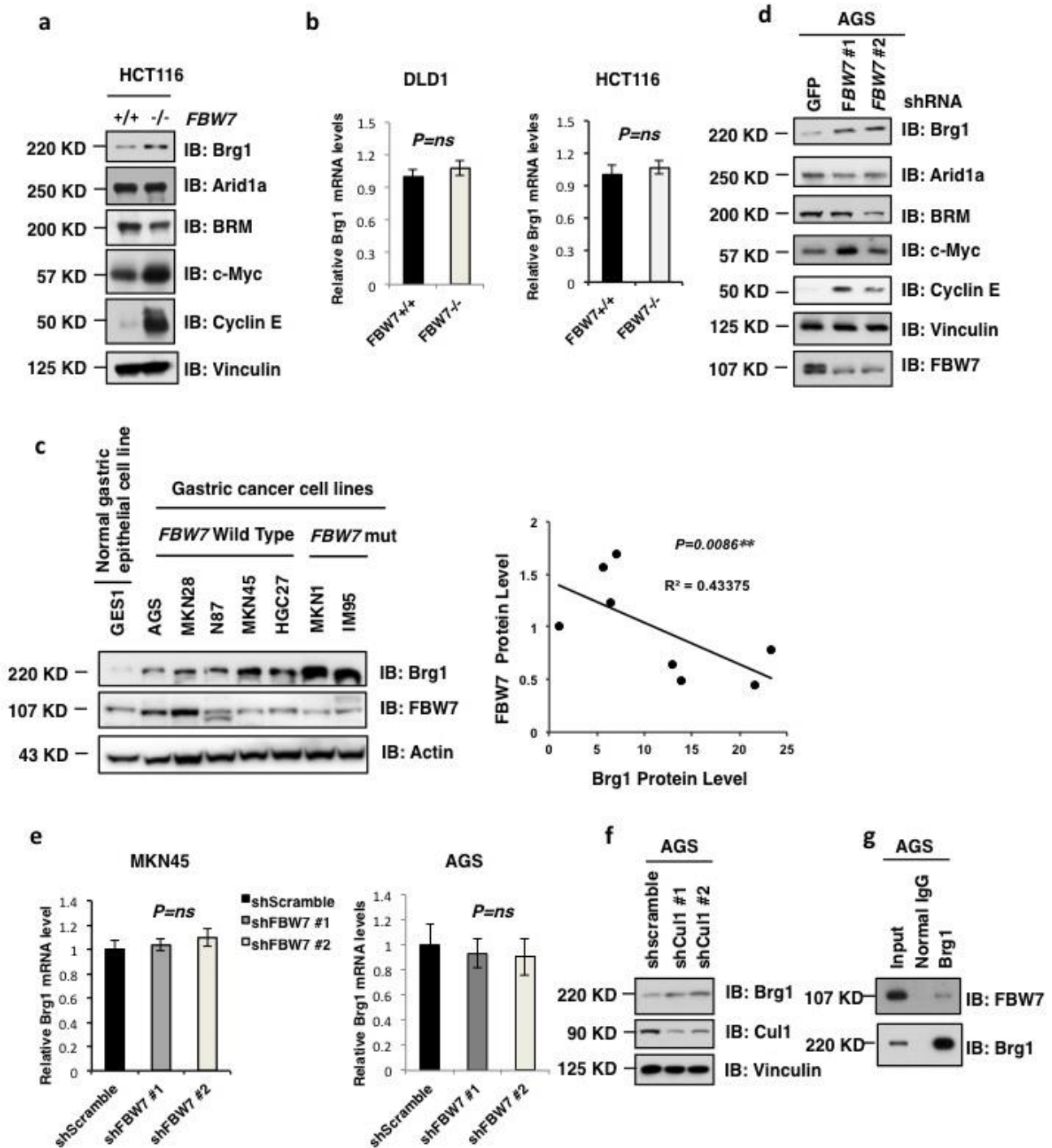


**Supplementary Information**

**SCF<sup>FBW7</sup>-mediated Degradation of Brg1 Suppresses  
Gastric Cancer Metastasis**

**Huang et al.**

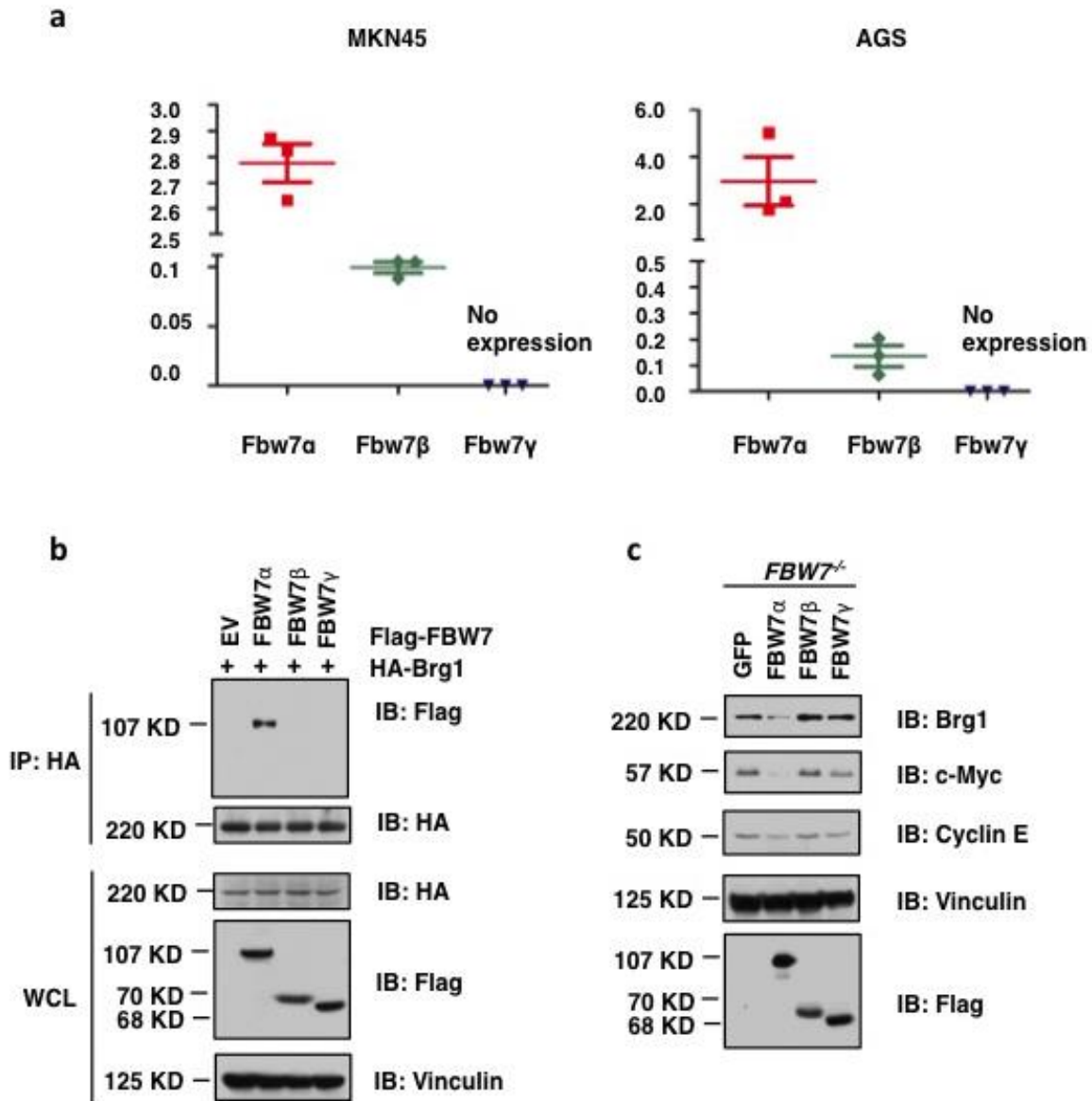
# Supplementary Figure 1



### Supplementary Figure 1: FBW7 negatively regulates Brg1.

- (a) Immunoblot (IB) analysis of whole cell lysates (WCL) derived from wild-type (*FBW7*<sup>+/+</sup>) and *FBW7*<sup>-/-</sup> HCT116 cells.
- (b) Real-time PCR analysis of Brg1 gene expression in WT and *FBW7*<sup>-/-</sup> DLD1 and HCT116 cells.
- (c) IB analysis of WCL derived from different gastric cancer cell lines. GES1 is a normal gastric epithelial cell line as a negative control.
- (d) IB analysis of WCLs derived from AGS cells transfected with the indicated *FBW7* shRNA lentivirus.
- (e) Real-time PCR analysis of Brg1 gene expression in MKN45 and AGS cells transfected with the indicated shRNA.
- (f) IB analysis of WCLs derived from AGS cells transfected with the indicated *Cullin1* shRNA lentiviruses.
- (g) Co-IP experiments in AGS cells were performed using anti-Brg1 antibody (sc-17796, Santa Cruz). Mouse IgG was used as a control.

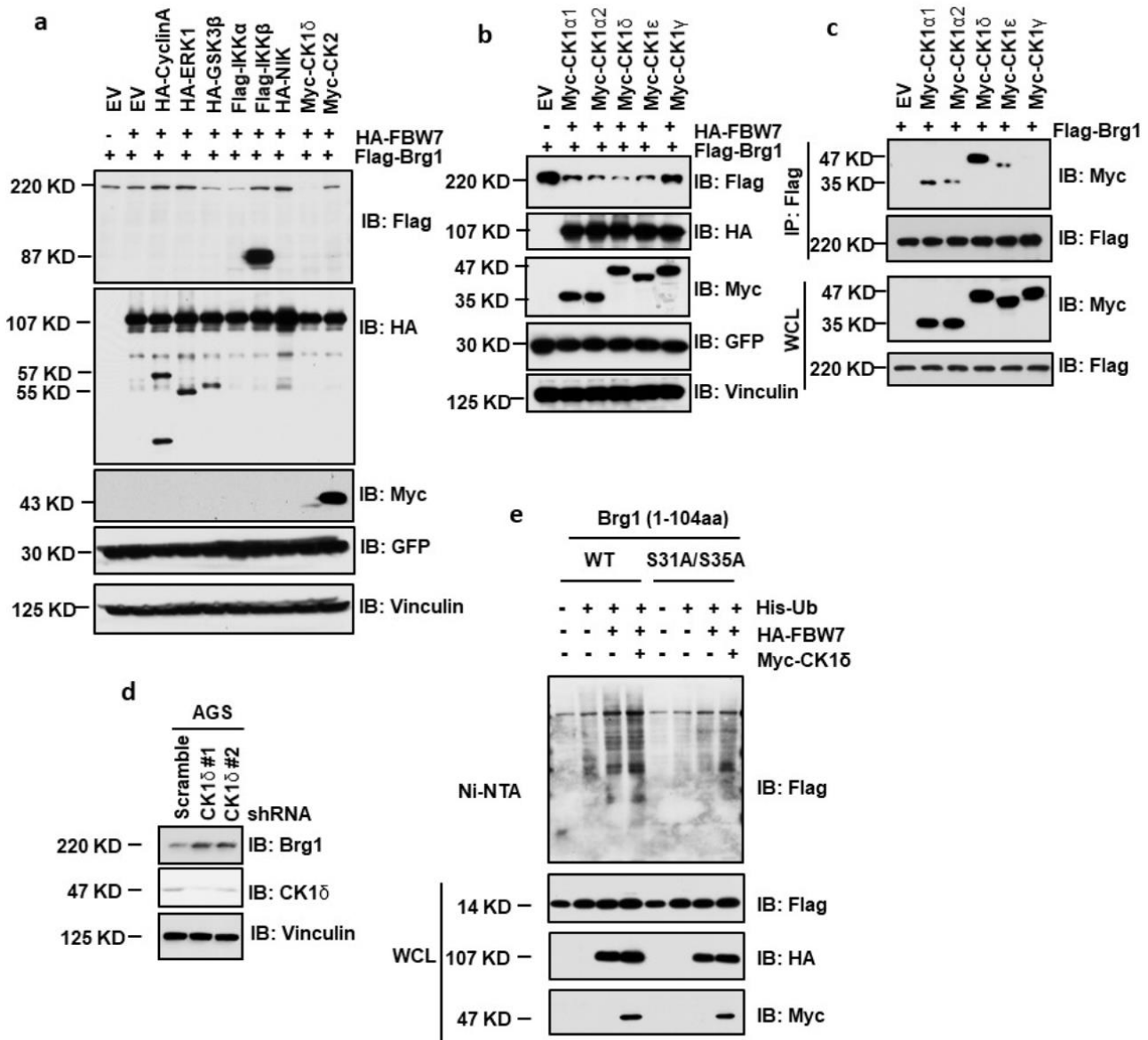
## Supplementary Figure 2



**Supplementary Figure 2: FBW7 $\alpha$  is the dominant isoform of FBW7 expressed in gastric cancer cells that regulates Brg1.**

- (a) Real-time PCR analysis of three FBW7 isoforms ( $\alpha$ ,  $\beta$ ,  $\gamma$ ) gene expression in MKN45, and AGS gastric cancer cells. Specific Primers are designed: FBW7 $\alpha$  Forward: 5-CGGAGTCTCCCAAACCTGAC-3, Reverse: 5-GGCGCGGTACTCCTCTTTT-3; FBW7 $\beta$  Forward: 5-AGTCTGCATTGCTGAATCCTG-3, Reverse: 5-ACTATGCCCTGTCAAAGCCT; FBW7 $\gamma$  Forward: 5-GGTCAGGACATTTGGTAGGG-3, Reverse: 5-GACAAAAAGGGAGGCCTTGG-3.
- (b) IB analysis of WCLs and IPs derived from MKN45 cells transfected with HA-Brg1 together with three Flag-FBW7 isoforms ( $\alpha$ ,  $\beta$ ,  $\gamma$ ) plasmids.
- (c) IB analysis of WCLs derived from *FBW7*<sup>-/-</sup> DLD1 cells transfected with three Flag-FBW7 isoforms ( $\alpha$ ,  $\beta$ ,  $\gamma$ ) plasmids.

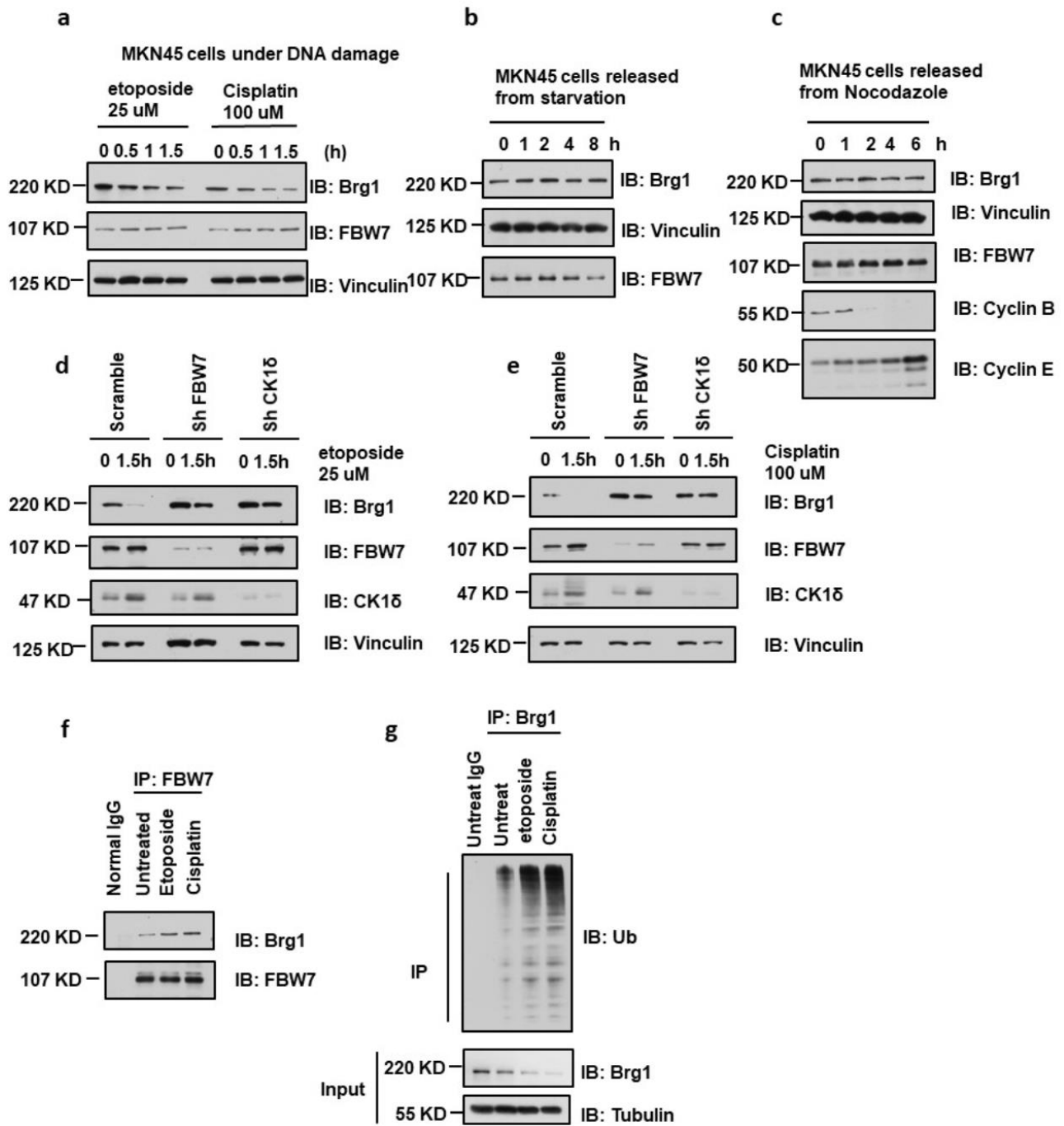
## Supplementary Figure 3



### Supplementary Figure 3: CK1δ is the crucial upstream kinase of Brg1 and promotes the FBW7-mediated Brg1 ubiquitination.

- IB analysis of WCL derived from 293T cells transfected with the Flag-Brg1 and HA-FBW7 plasmids in the presence of indicated constructs. A plasmid encoding GFP was used as a negative control for transfection efficiency.
- IB analysis of 293T cells transfected with the Flag-Brg1 and HA-FBW7 plasmids in the presence of the indicated constructs.
- IB analysis of WCLs and IPs derived from 293T cells transfected with Flag-Brg1 together with the indicated Myc-tagged CK1 family vectors.
- IB analysis of WCLs derived from AGS cells infected with the indicated lentiviral shRNA-CK1δ constructs.
- IB analysis of WCLs and His tag pull-down of 293 cells transfected with indicated Flag-Brg1(1-104aa) constructs together with the HA-FBW7, Myc-CK1δ and His-Ub plasmids.

# Supplementary Figure 4

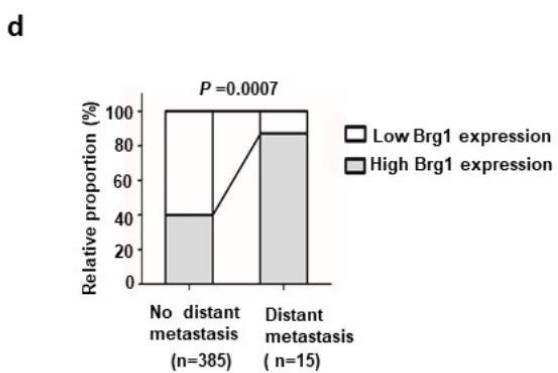
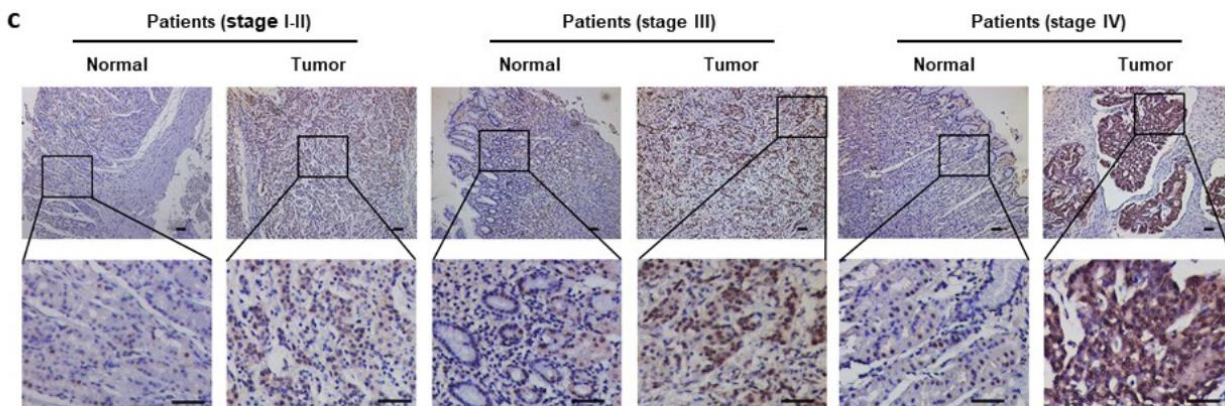
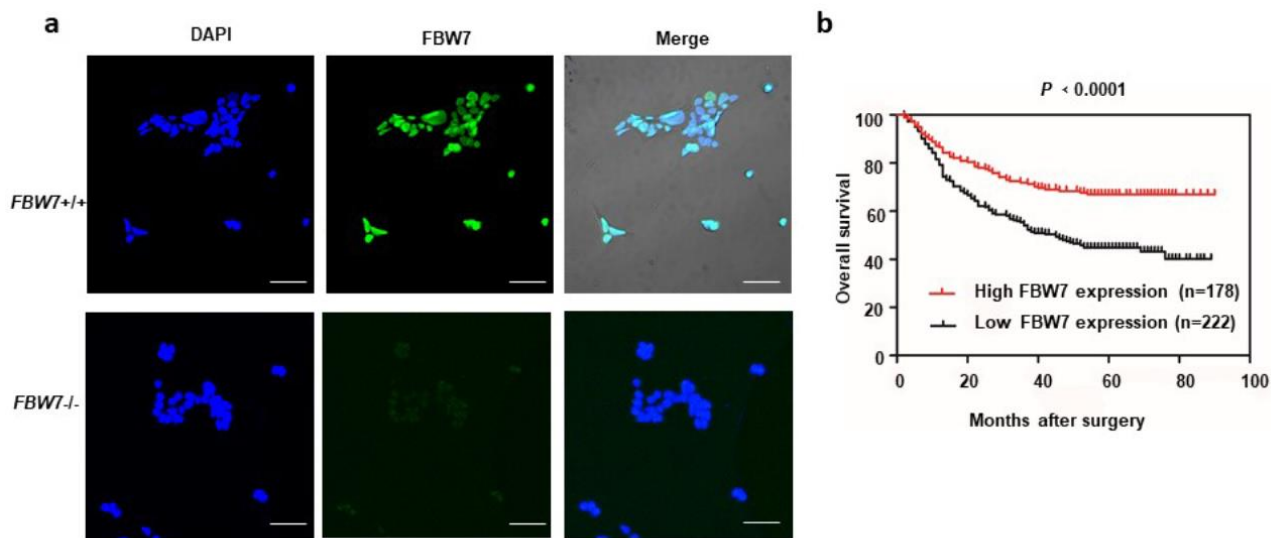


**Supplementary Figure 4: Brg1 degradation and ubiquitination mediated by FBW7/CK1 $\delta$  is triggered under DNA damage conditions.**

- (a) MKN45 cells were treated with 25  $\mu$ M etoposide or 100  $\mu$ M Cisplatin. At the indicated time points, WCLs were prepared and immunoblots were probed with the indicated antibodies.
- (b) IB analysis of MKN45 cells treated by serum starvation overnight and followed by serum re-addition for the indicated times.
- (c) IB analysis of MKN45 cells synchronized by growth in nocodazole and then released for the indicated periods of time.
- (d) IB analysis of WCLs derived from MKN45 cells treated with 25  $\mu$ M etoposide.
- (e) IB analysis of WCLs derived from MKN45 cells treated with 100  $\mu$ M Cisplatin.
- (f) Endogenous co-IPs using FBW7 antibody and IB analysis of WCLs derived from MKN45 cells treated with 25  $\mu$ M etoposide, or 100  $\mu$ M Cisplatin for 1.5h.
- (g) Endogenous co-IPs using Brg1 antibody and IB analysis of WCLs derived from MKN45 cells treated with 25  $\mu$ M etoposide, or 100  $\mu$ M Cisplatin for 1.5h.



# Supplementary Figure 5

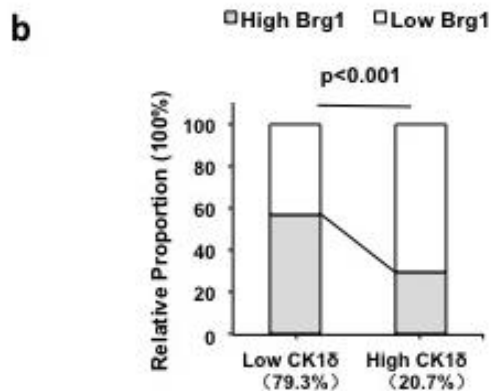
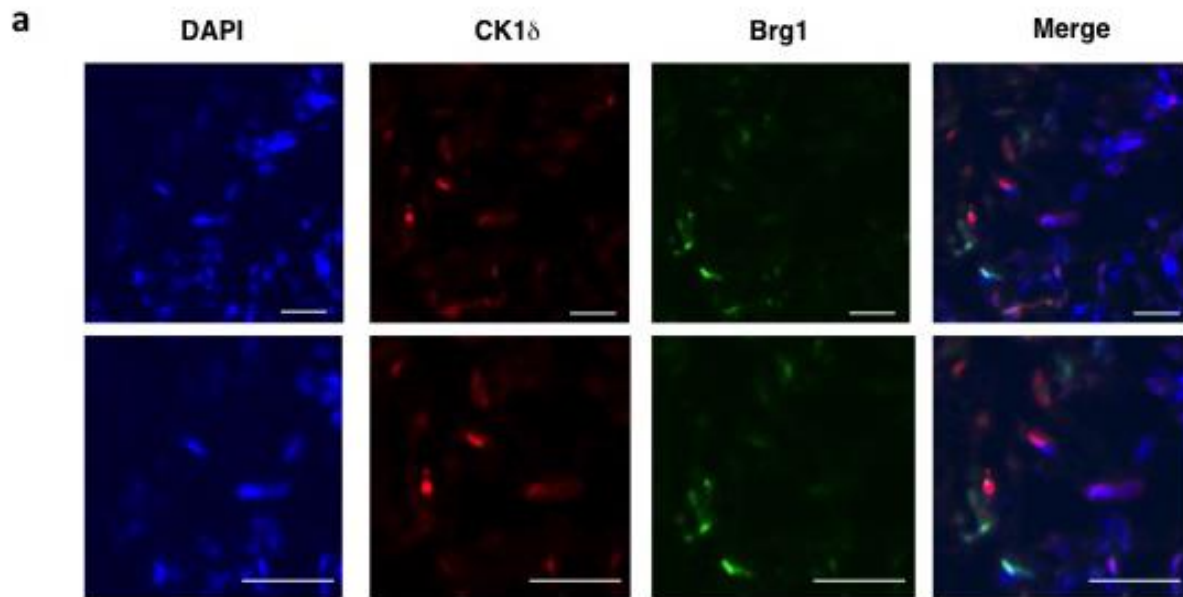




**Supplementary Figure 5: Brg1 overexpression correlates with gastric tumor progression.**

- (a) The immunofluorescence of FBW7 (ab109617, Abcam) in wild-type (*FBW7<sup>+/+</sup>*) and *FBW7<sup>-/-</sup>* DLD1 cells. Scale Bar, 100  $\mu\text{m}$ .
- (b) The association of FBW7 expression with overall survival was examined by Kaplan-Meier analysis in gastric cancer patients from the Zhongshan cohort.
- (c) Representative images of Brg1 expression in tumor sections and adjacent non-tumor tissues according to TNM stage. Scale Bar, 100  $\mu\text{m}$ .
- (d) High Brg1 expression positively correlates with distant metastasis in gastric cancer. Their correlation was analyzed by Spearman rank correlation test.

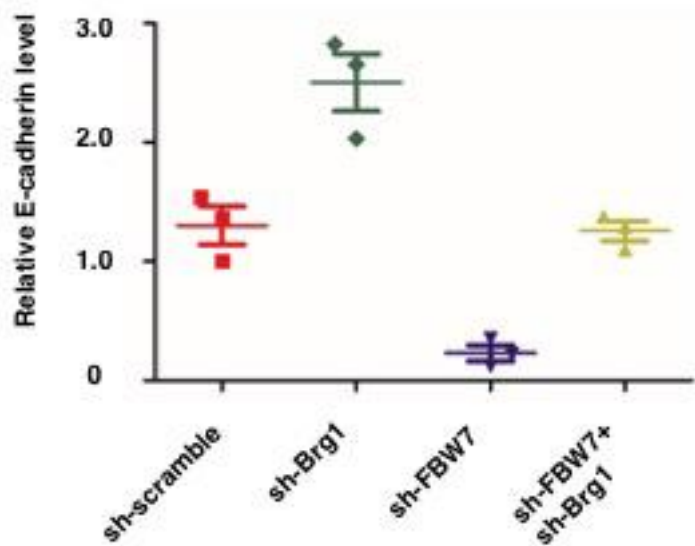
## Supplementary Figure 6



**Supplementary Figure 6: The Brg1 level is inversely correlated with the activation of CK1δ in gastric cancer samples.**

- (a) Representative immunofluorescence (IF) images of Brg1(sc-17796, Santa Cruz) and CK1δ (14388-1-AP, Proteintech) in tumor sections. Scale Bar, 100 μm.
- (b) The Brg1 expression inversely correlates with CK1δ activation in gastric cancer. Their correlation was analyzed by Spearman rank correlation test.

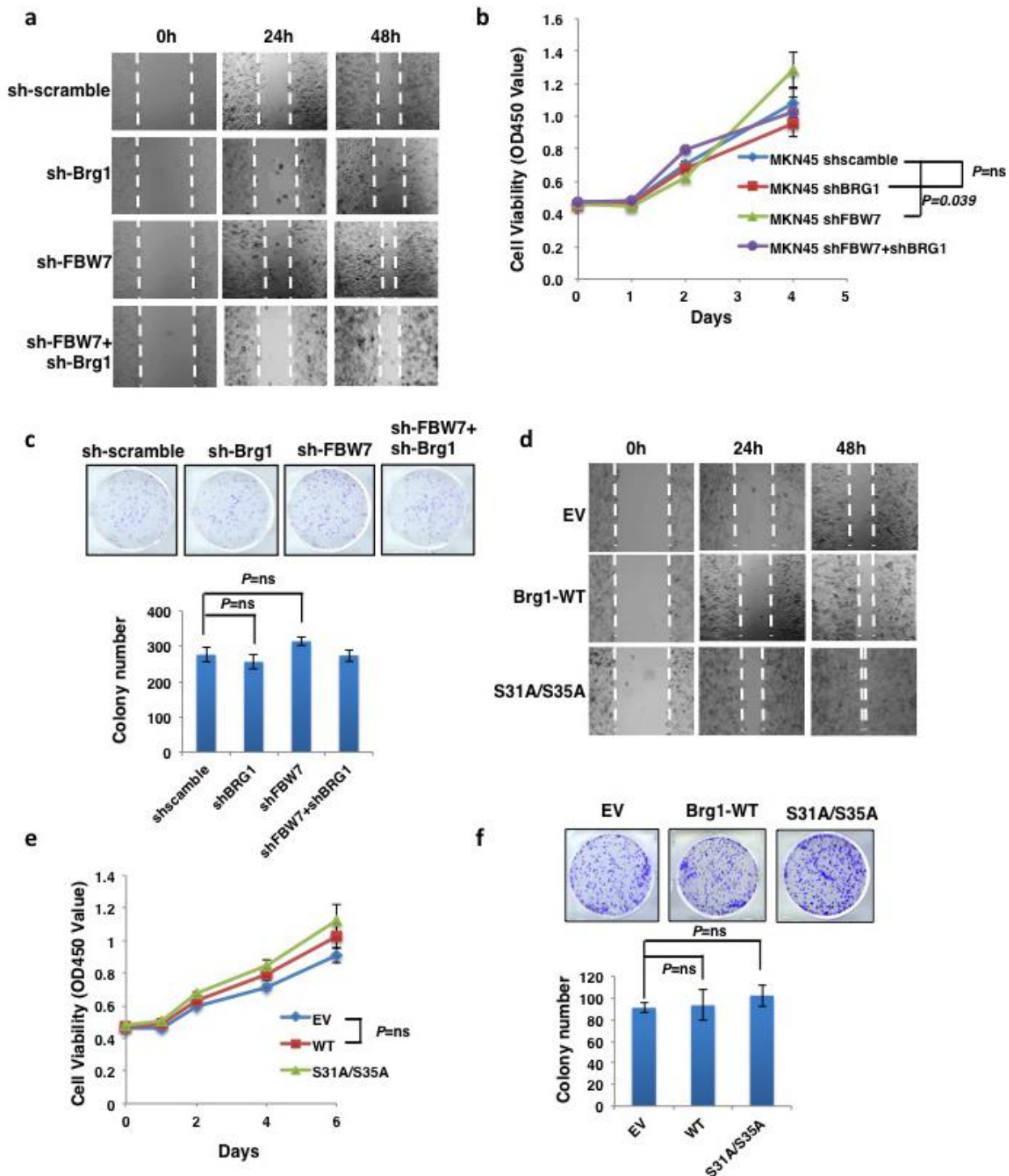
## Supplementary Figure 7



### Supplementary Figure 7: The FBW7-Brg1 axis regulates the mRNA expression of E-cadherin.

Real-time PCR analysis of E-cadherin gene expression in MKN45 cells transfected with the indicated shRNA.

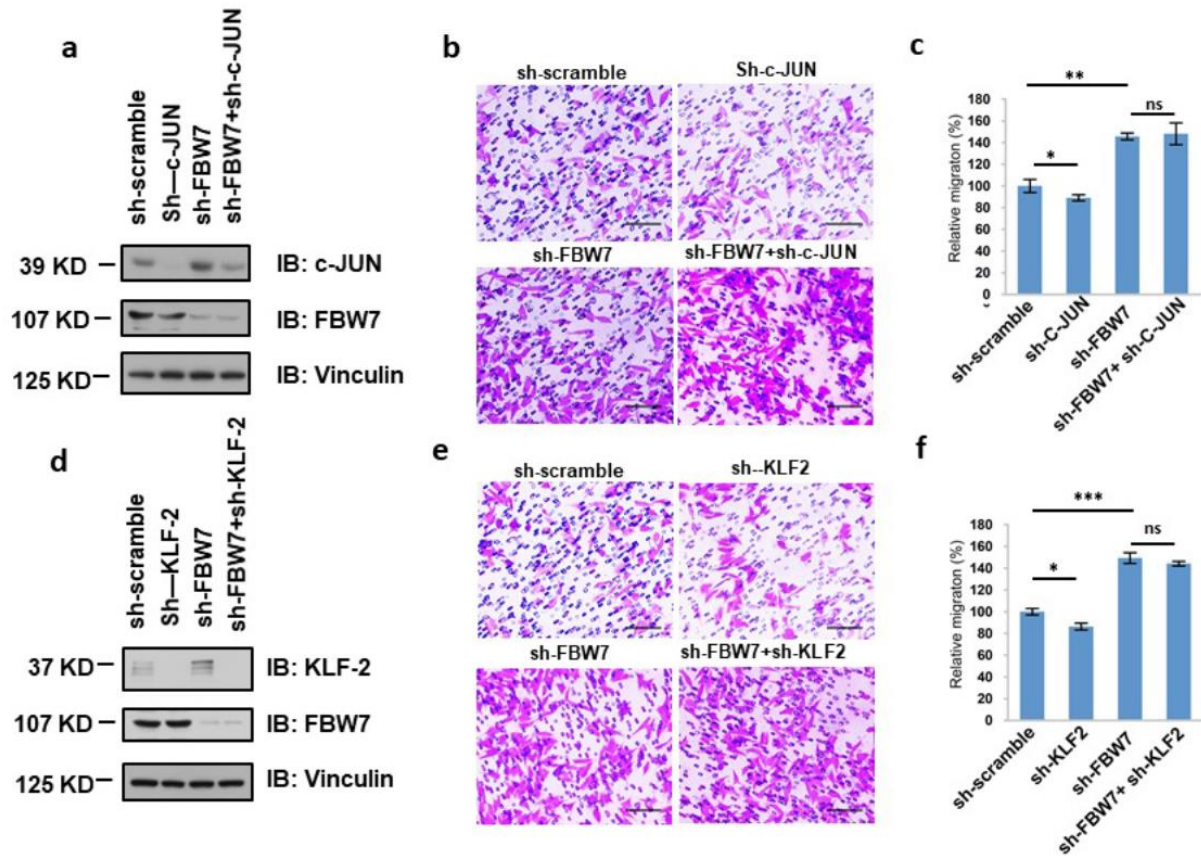
# Supplementary Figure 8



**Supplementary Figure 8: Brg1 has no significant effect on the cell proliferation of gastric cancer cells.**

- (a) *In vitro* scratch assays were performed with cell lines generated in Fig 4a. Cells were seeded on 60 mm dishes and scratched on the surface with a pipette tip. Representative photographs at time points 0, 24 and 48 hr were imaged after the scratch.
- (b) Cell growth curves of MKN45 cells treated with the indicated shRNA lentiviruses were plotted.
- (c) Colony formation assays of MKN45 cells treated with the indicated shRNA lentiviruses were performed. The quantification of the colonies was shown in the bottom. Data was presented as mean  $\pm$  SD.
- (d) *In vitro* scratch assay was performed with cell lines in Fig 4h.
- (e) Cell growth curves of AGS cells transfected with the indicated Flag-Brg1 vectors were plotted.
- (f) Colony formation assays of AGS cells transfected with the indicated Flag-Brg1 vectors. The quantification of the colonies was shown in the bottom. Data was presented as mean  $\pm$  SD.

## Supplementary Figure 9



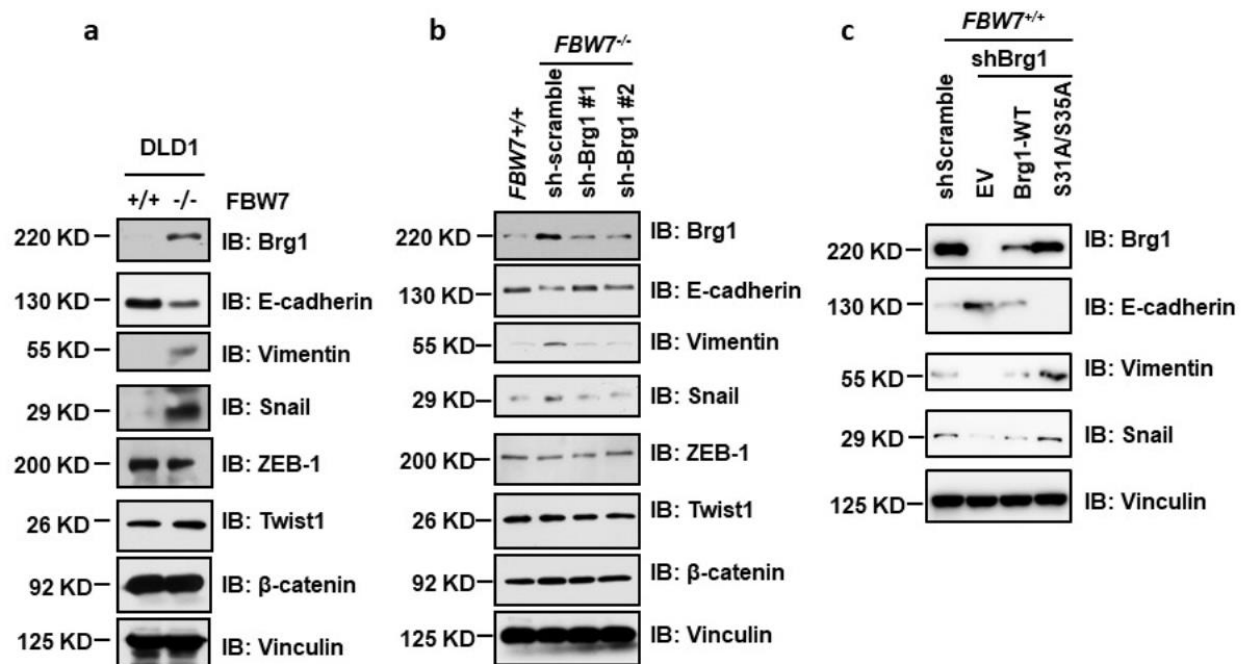
**Supplementary Figure 9: The knockdown of *c-Jun* or *KLF2* does not attenuate the increased cell migration induced by *FBW7* knockdown in gastric cancer cell line MKN45.**

- (a) IB analysis of WCLs derived from AGS cells infected with the indicated lentiviral shRNA constructs.
- (b-c) Representative images of migrated AGS cells infected with the indicated lentiviral shRNA constructs in a transwell assay (b) and quantification of migrated cells in (c). Data were shown as mean  $\pm$  SD of three independent experiments. \* $p < 0.05$ , \*\* $p < 0.01$ , Student's t test. Scale Bar, 100  $\mu$ m.
- (d) IB analysis of WCLs derived from AGS cells infected with the indicated lentiviral shRNA constructs.
- (e-f) Representative images of migrated AGS cells infected with the indicated lentiviral shRNA constructs in a transwell assay (e) and quantification of migrated cells in (f). Data were shown as mean  $\pm$  SD of three independent experiments. \* $p < 0.05$ , \*\*\* $p < 0.001$ , Student's t test. Scale Bar, 100  $\mu$ m.





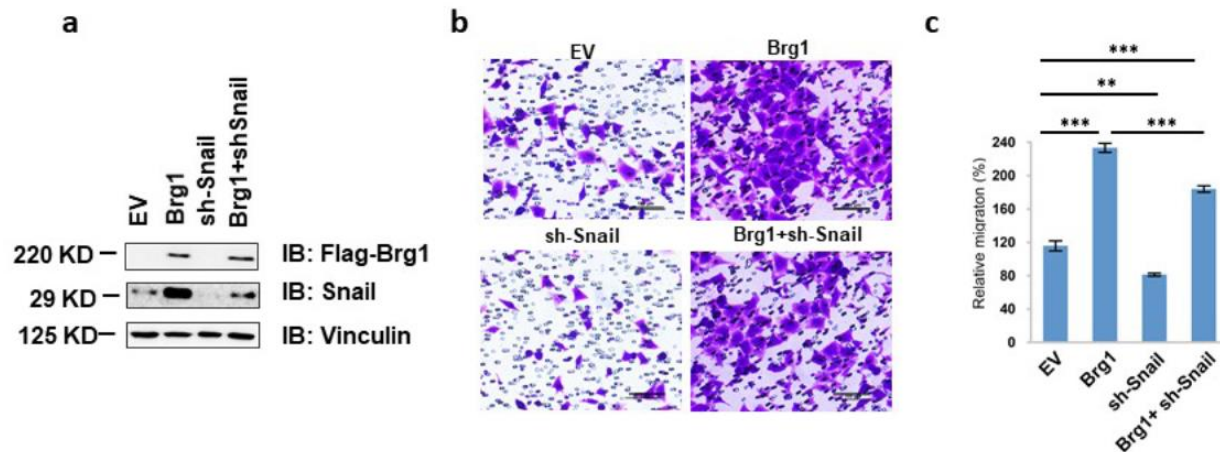
## Supplementary Figure 11



### Supplementary Figure 11: Brg1 drives EMT transcriptional program.

- (a) IB analysis of WCLs derived from WT ( $FBW7^{+/+}$ ) and  $FBW7^{-/-}$  DLD1 cells.
- (b) IB analysis of WCLs derived from WT and  $FBW7^{-/-}$  DLD1 cells infected with the indicated shRNA lentiviruses.
- (c) IB analysis of WCLs derived from WT DLD1 cells transfected with the indicated shRNA lentivirus and Flag-Brg1 constructs.

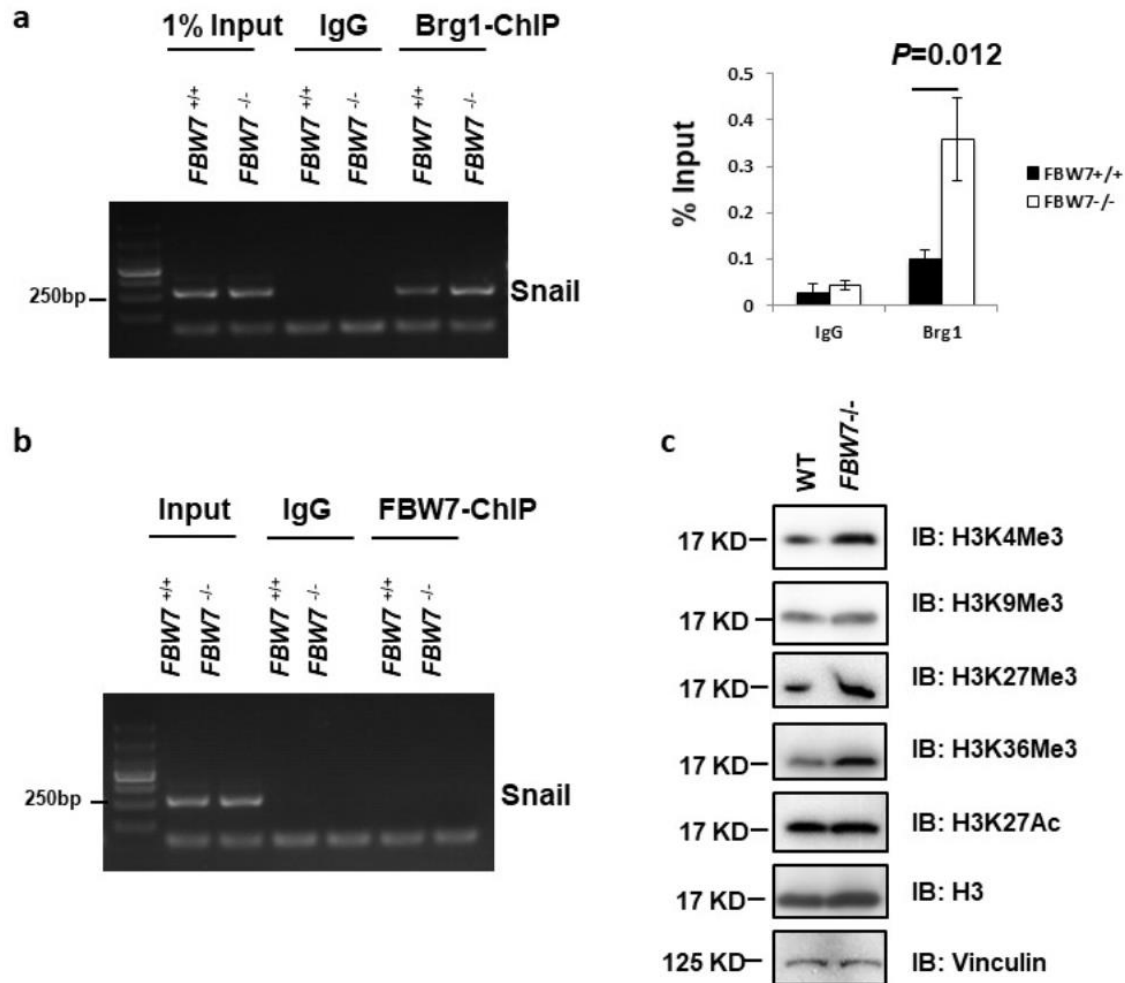
## Supplementary Figure 12



### Supplementary Figure 12: Brg1 drives EMT in part through regulating Snail.

- (a) IB analysis of WCL derived from AGS cells transfected with indicated plasmid or lentiviral shRNA in the presence of indicated constructs.
- (b-c) Representative images of migrated AGS cells infected with indicated plasmid or lentiviral shRNA constructs in a transwell assay (b) and quantification of migrated cells in (c). Data were shown as mean  $\pm$  SD of three independent experiments. \*\* $p < 0.01$ , \*\*\* $p < 0.001$ , Student's t test.

## Supplementary Figure 13



### Supplementary Figure 13: FBW7-Brg1 regulates histone modification.

- ChIP assays with anti-Brg1 antibody were performed in WT (*FBW7*<sup>+/+</sup>) and *FBW7*<sup>-/-</sup> DLD1 cells.
- ChIP assays with anti-FBW7 antibody were performed in WT (*FBW7*<sup>+/+</sup>) and *FBW7*<sup>-/-</sup> DLD1 cells.
- IB analysis of WCLs derived from WT (*FBW7*<sup>+/+</sup>) and *FBW7*<sup>-/-</sup> DLD1 cells.

**Supplementary Table 1. Relation between intratumoral FBW7 expression and clinical characteristics of gastric cancer, related to Figure 3**

Factor	Patients		FBW7 expression		P-value
	No.	%	Low	High	
<b>All patients</b>	400	100	222	178	
<b>Age (years)</b>					0.062
≤65	248	62	147	101	
>65	152	38	75	77	
<b>Gender</b>					0.937
Female	134	34	74	60	
Male	266	66	148	118	
<b>Location</b>					0.479
Proximal	58	15	30	28	
Middle	87	21	53	34	
Distal	255	64	139	116	
<b>Size</b>					0.629
≤ 2.5cm	115	29	66	49	
> 2.5cm	285	71	156	129	
<b>Differentiation</b>					0.363
Well	75	19	47	28	
Moderately	114	29	60	54	
Poorly	211	52	115	96	
<b>Lauren classification</b>					<b>0.001</b>
Intestinal type	245	61	120	125	
Diffuse type	134	34	85	49	
Mixed type	21	5	17	4	
<b>T classification</b>					0.537
T1	61	15	29	32	
T2	36	10	19	17	
T3	120	30	68	52	
T4	183	45	106	77	
<b>N classification</b>					<b>0.026</b>
N0	111	28	50	61	
N1	68	17	41	27	
N2	75	19	39	36	
N3	146	36	92	54	
<b>Distant metastasis</b>					<b>0.013</b>
No	385	96	209	176	
Yes	15	4	13	2	
<b>TNM stage</b>					<b>0.034</b>
I	67	16	31	36	
II	96	24	51	45	
III	222	56	127	95	
IV	15	4	13	2	
<b>Vascular invasion</b>					0.583
No	282	71	159	123	
Yes	118	29	63	55	

Abbreviation: TNM=tumour node metastasis.

P-value < 0.05 marked in bold font shows statistical significant.

**Supplementary Table 2. Relation between intratumoral Brg1 expression and clinical characteristics of gastric cancer, related to Figure 3**

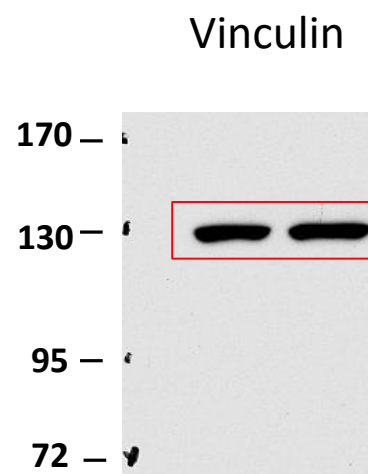
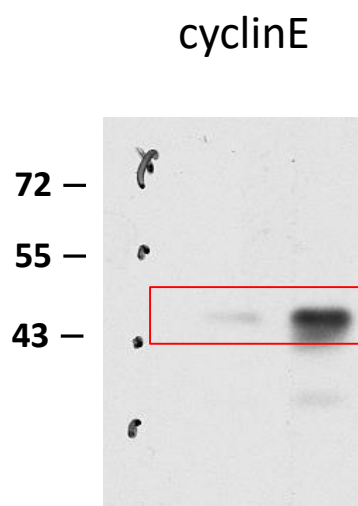
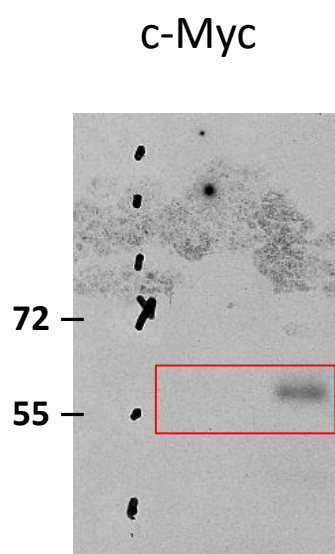
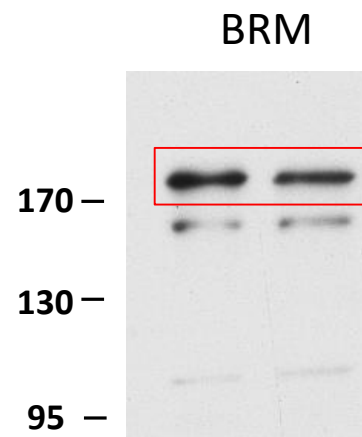
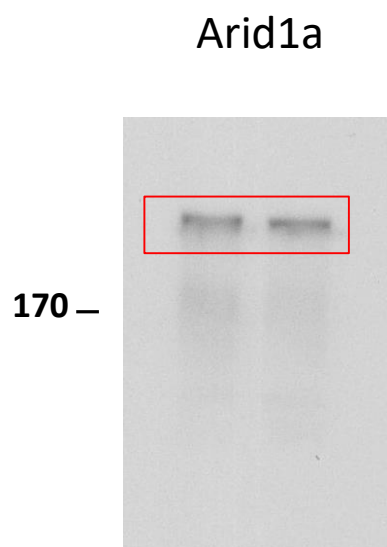
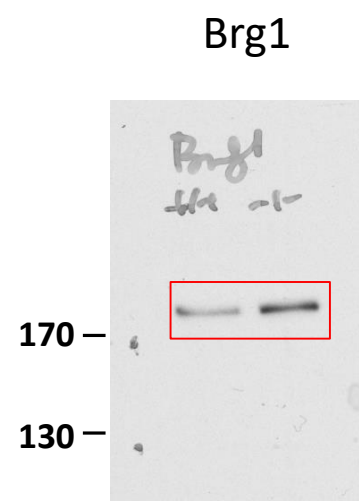
Factor	Patients		Brg1 expression		P-value
	No.	%	Low	High	
<b>All patients</b>	400	100	232	168	
<b>Age (years)</b>					0.199
≤65	248	62	150	98	
>65	152	38	82	70	
<b>Gender</b>					0.481
Female	134	34	81	53	
Male	266	66	151	115	
<b>Location</b>					0.971
Proximal	58	15	33	25	
Middle	87	21	50	37	
Distal	255	64	149	106	
<b>Size</b>					<b>0.003</b>
≤2.5cm	115	29	80	35	
>2.5cm	285	71	152	133	
<b>Differentiation</b>					0.506
Well	75	19	47	28	
Moderately	114	29	68	46	
Poorly	211	52	117	94	
<b>Lauren classification</b>					0.384
Intestinal type	245	61	137	108	
Diffuse type	134	34	84	50	
Mixed type	21	5	11	10	
<b>T classification</b>					<b>&lt; 0.001</b>
T1	61	15	55	6	
T2	36	10	21	15	
T3	120	30	69	51	
T4	183	45	87	96	
<b>N classification</b>					<b>&lt; 0.001</b>
N0	111	28	85	26	
N1	68	17	42	26	
N2	75	19	44	31	
N3	146	36	61	85	
<b>Distant metastasis</b>					<b>&lt; 0.001</b>
No	385	96	230	155	
Yes	15	4	2	13	
<b>TNM stage</b>					<b>&lt; 0.001</b>
I	67	16	57	10	
II	96	24	64	32	
III	222	56	109	113	
IV	15	4	2	13	
<b>Vascular invasion</b>					<b>0.001</b>
No	282	71	178	104	
Yes	118	29	54	64	

Abbreviation: TNM=tumour node metastasis.

P-value<0.05 marked in bold font shows statistical significant.

# Supplementary Figure 14

Uncropped blots related to Figure 1a



Uncropped blots related to Figure 1b and 1d

Fig1b-Brg-1

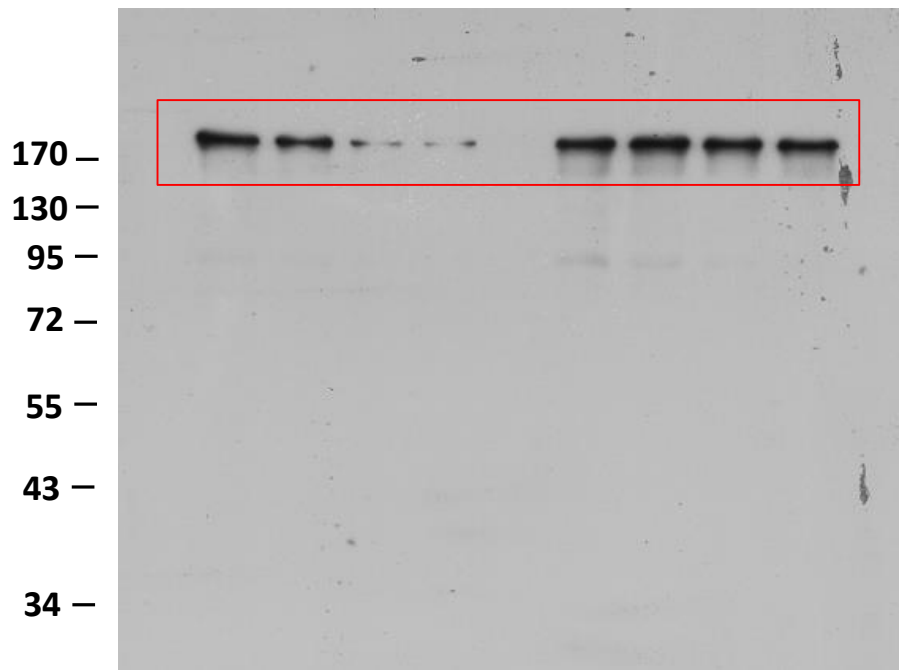


Fig1b-Vinculin

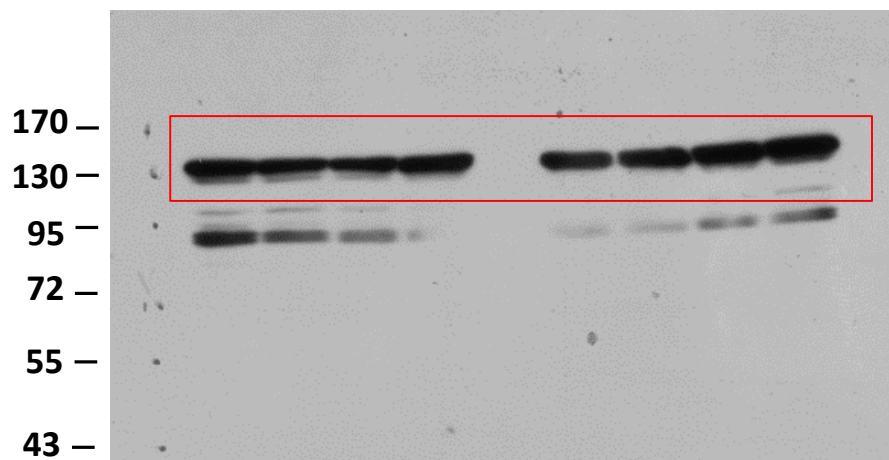


Fig1d-Brg1

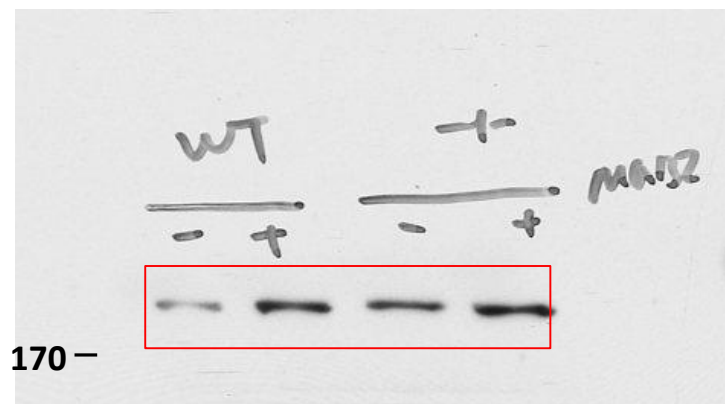
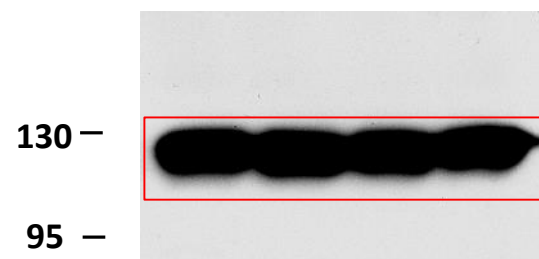


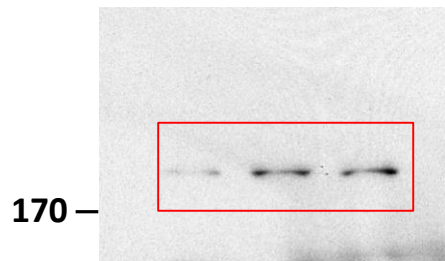
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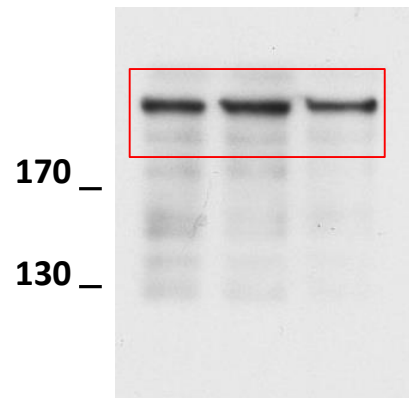


Uncropped blots related to Figure 1e

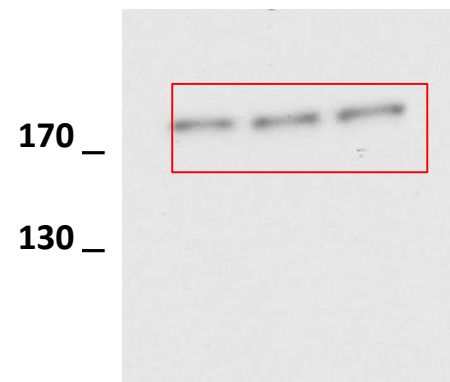
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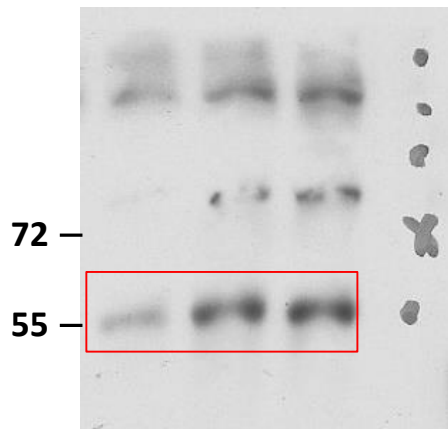
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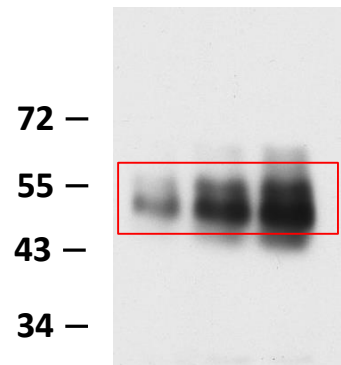
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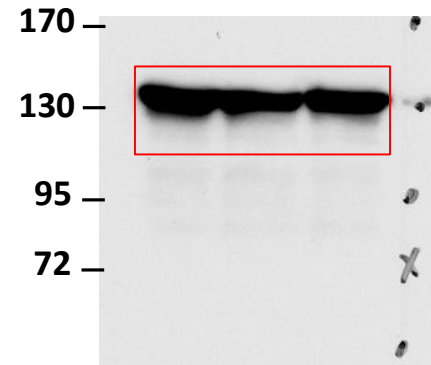
c-Myc



cyclinE



Vinculin



FBW7

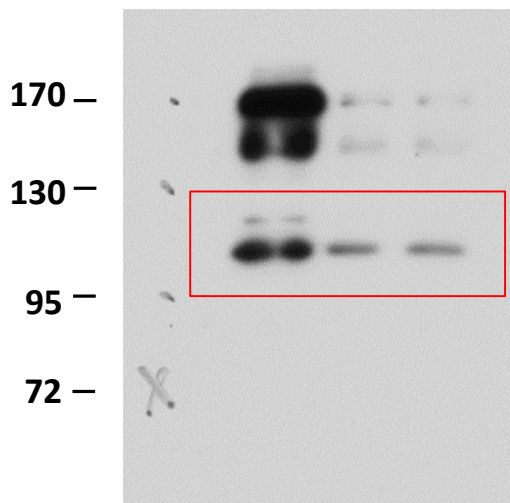


Fig1f-Brg-1

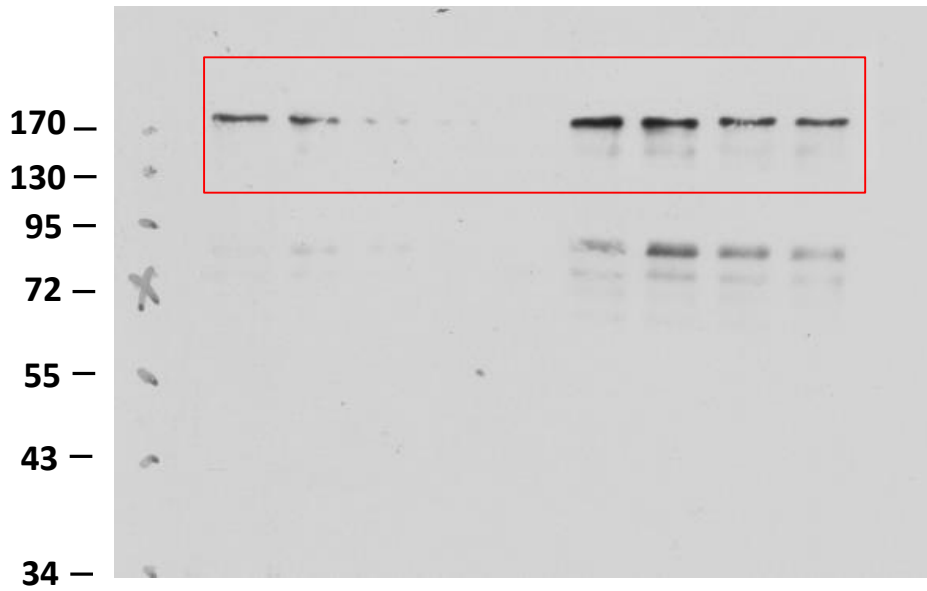


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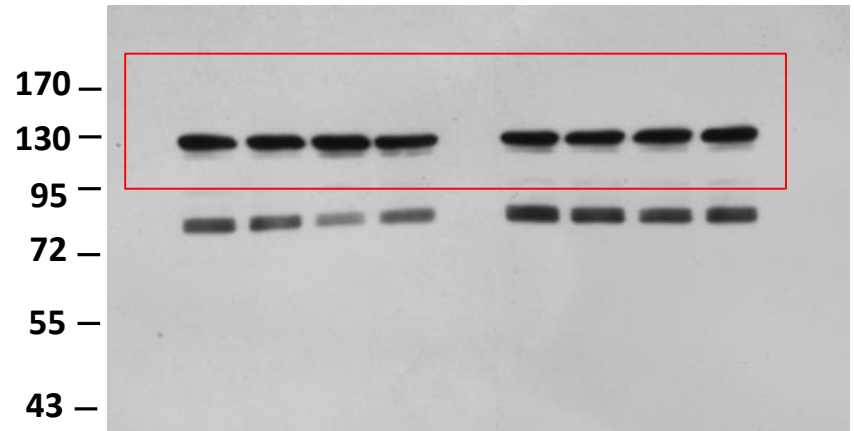


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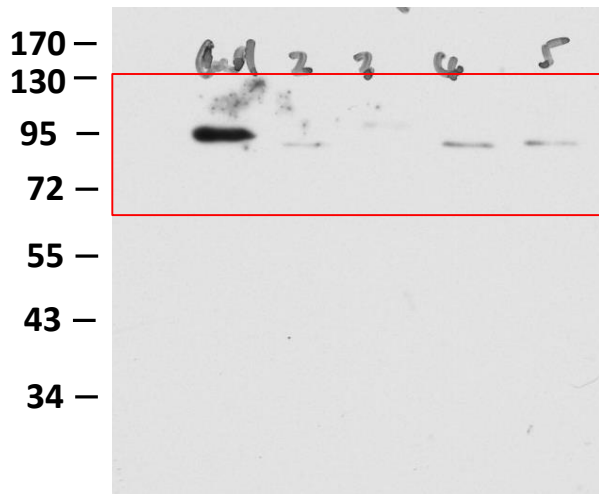


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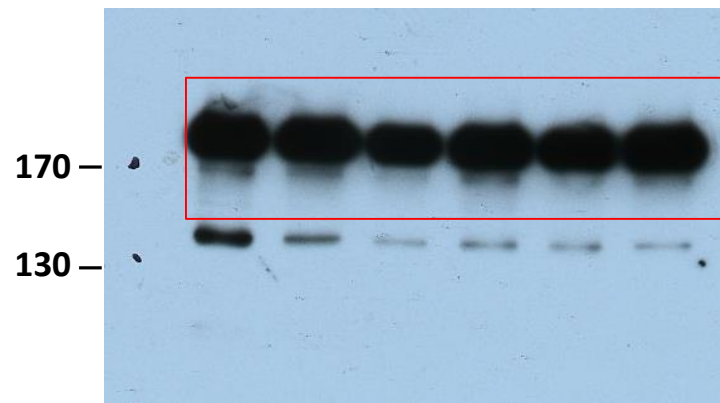


Fig1g-Myc (Lysates)

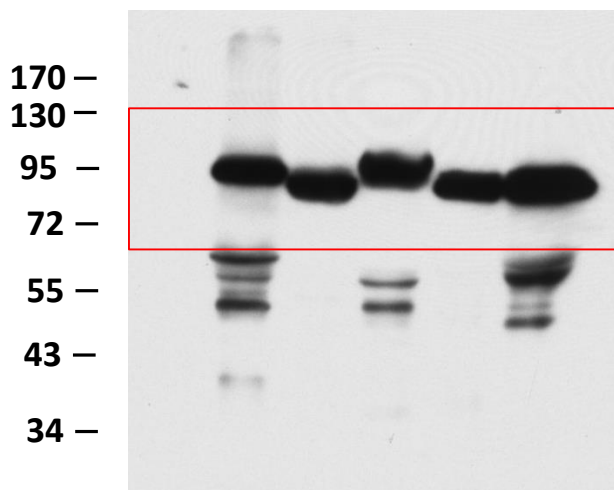
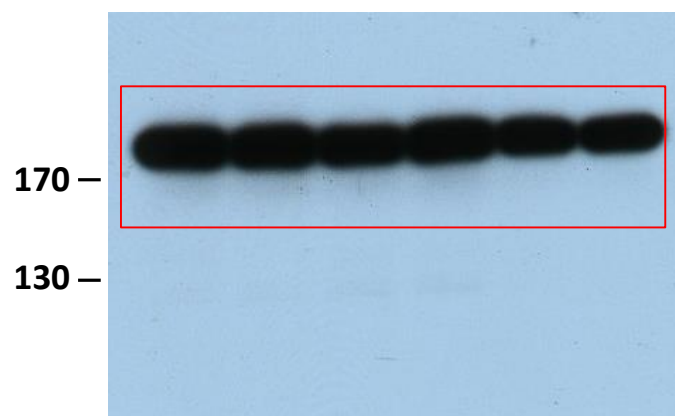
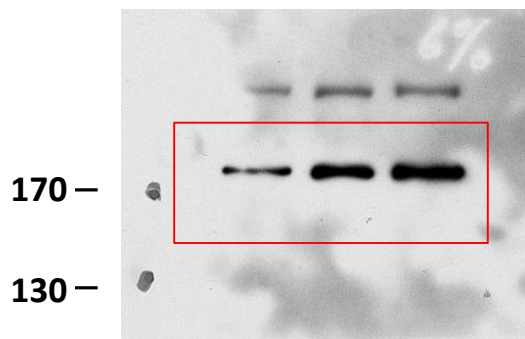


Fig1g-Flag (lysates)

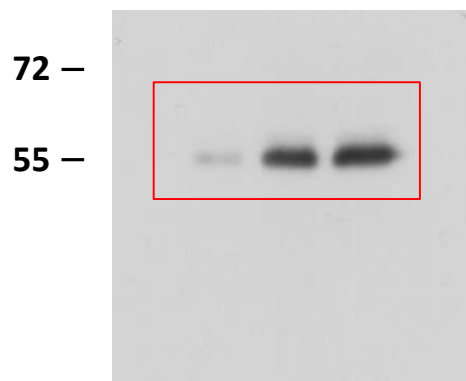


Uncropped blots related to Figure 1h

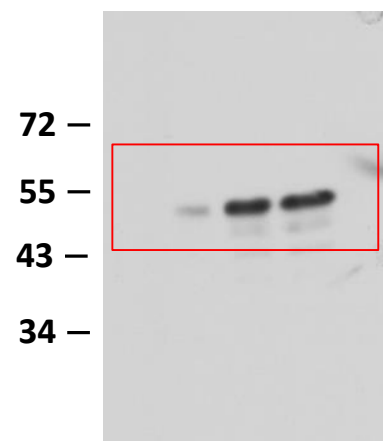
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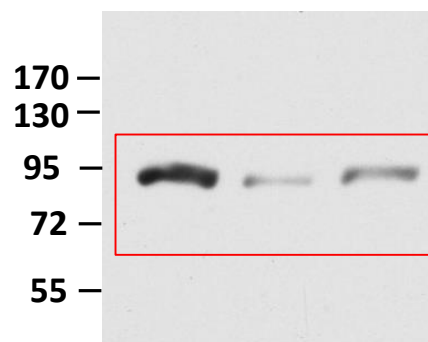
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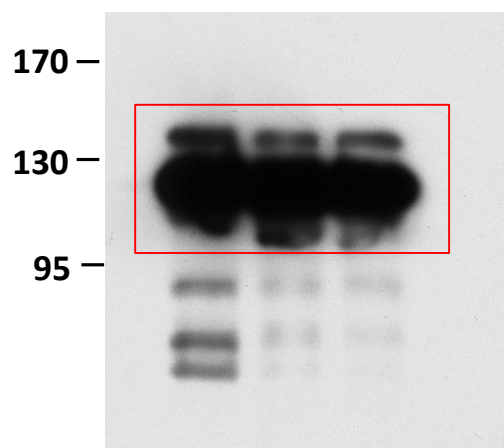
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Cul1



Vinculin



Uncropped blots related to Figure 1i and 1j

Fig1i-HA (IP)



Fig1i-Flag (IP)

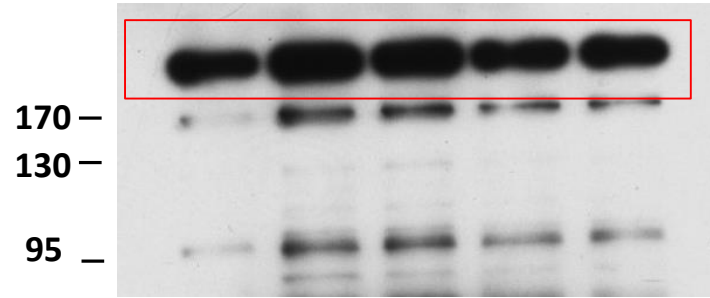


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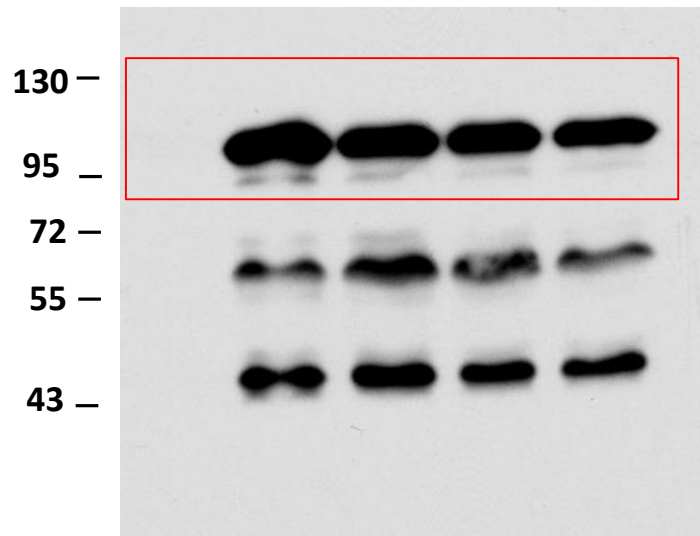


Fig1i-Flag (lysates)

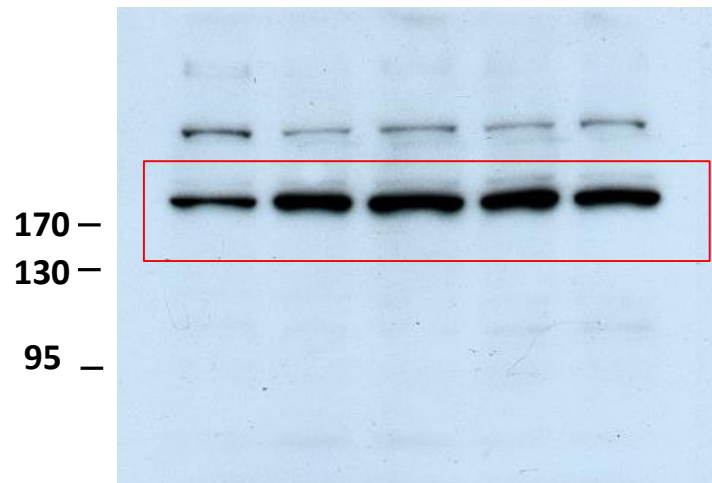


Fig1j-Brg1 (IP)

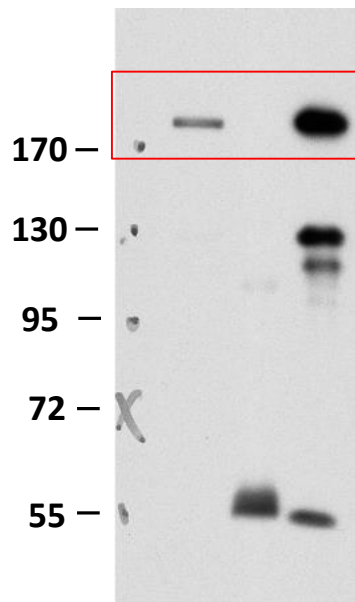


Fig1j-FBW7 (IP)

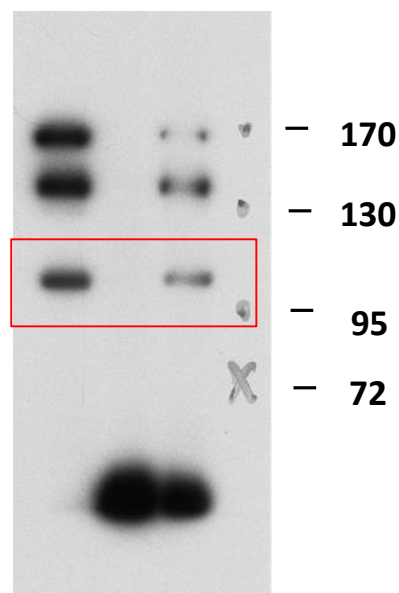
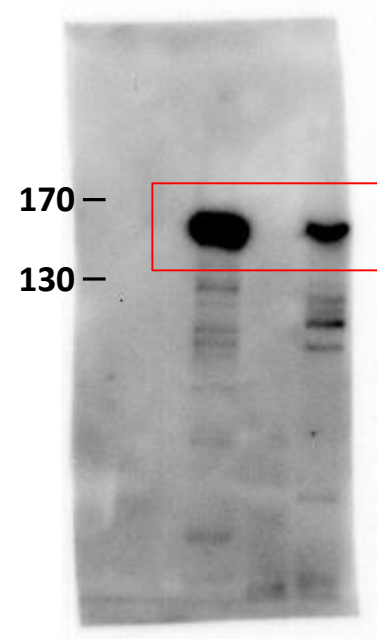
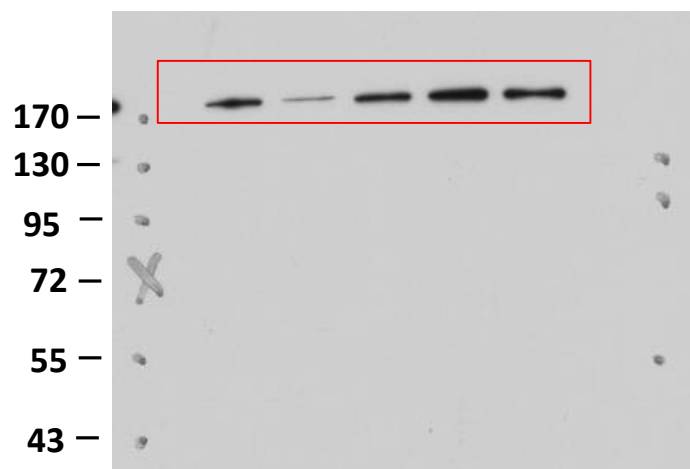


Fig1j-BAF155 (IP)

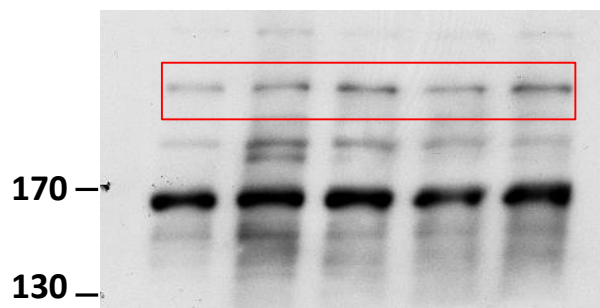


Uncropped blots related to Figure 1k

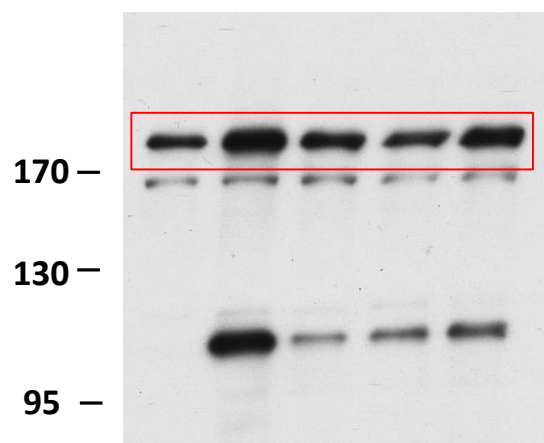
Brg1



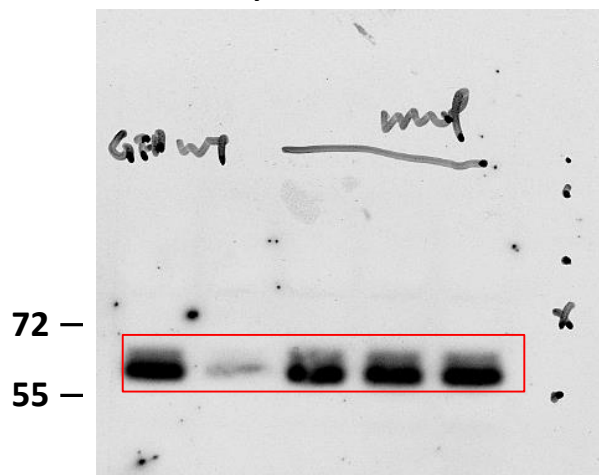
Arid1a



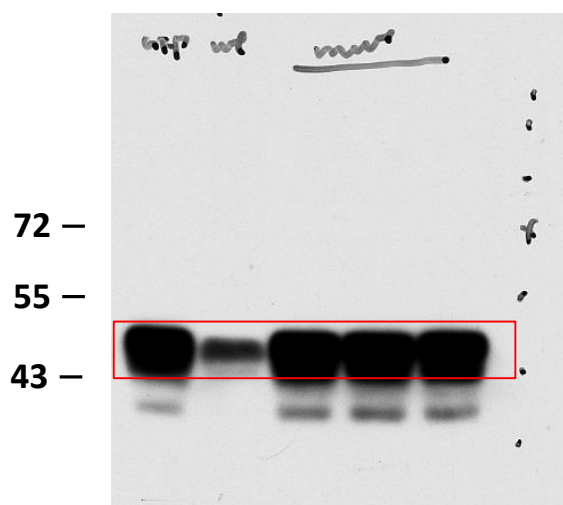
BRM



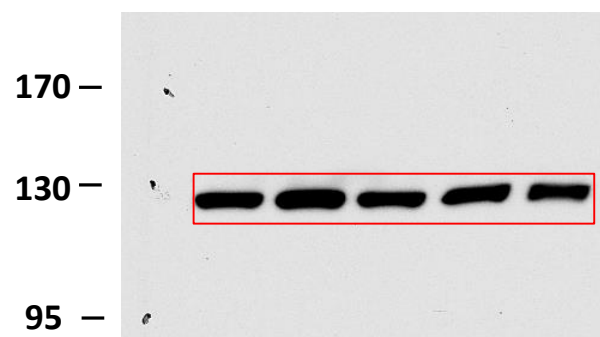
c-Myc



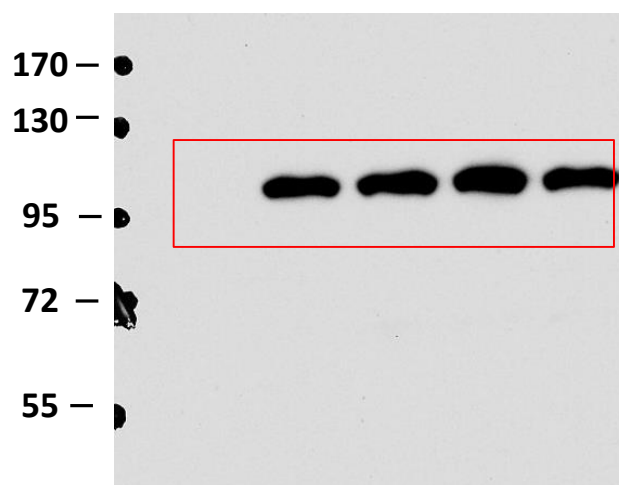
cyclinE



Vinculin



HA



Uncropped blots related to Figure 2b, 2c

Fig2b, HA (IP)

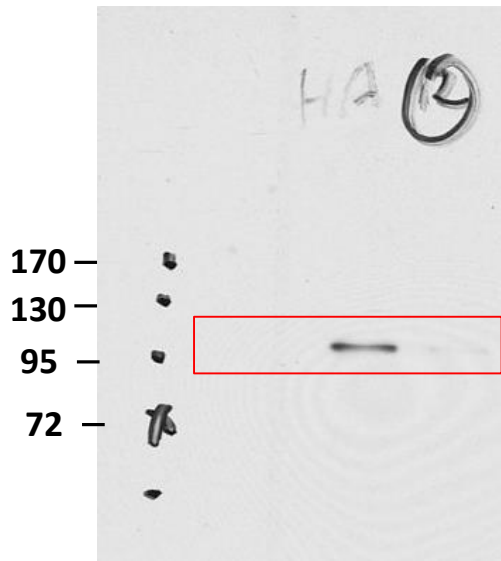


Fig2b, HA (lysates)

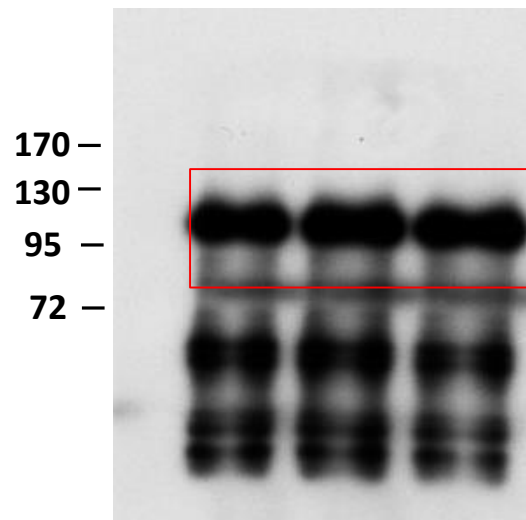


Fig2b, Flag (IP)

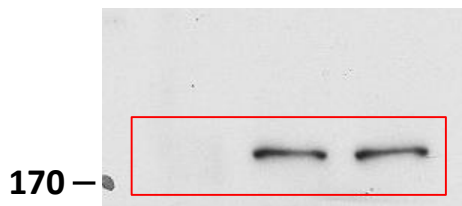


Fig2b, Flag (lysates)

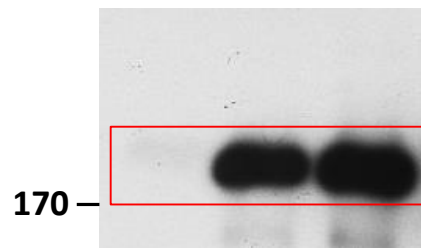


Fig2c, HA

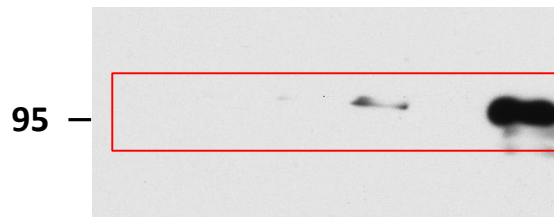
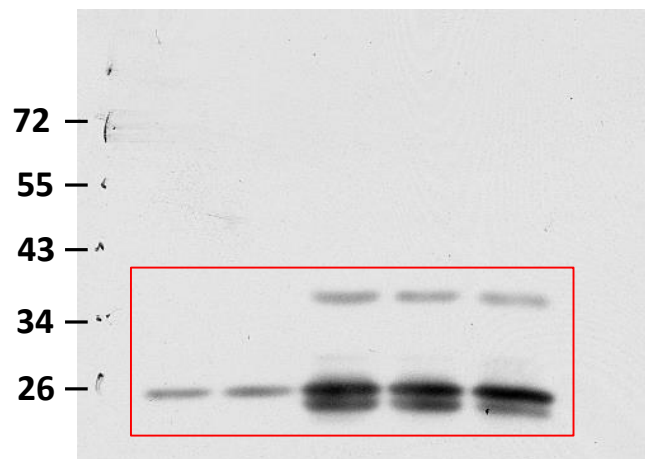


Fig2c, GST





Uncropped blots related to Figure 2d,2e

Fig 2d-HA (IP)

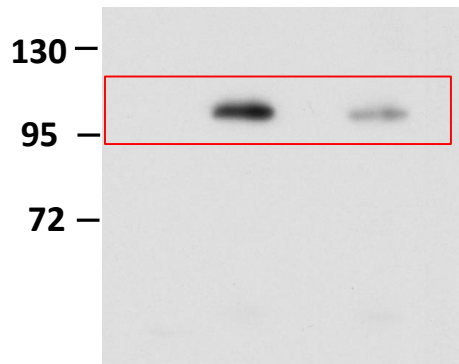


Fig 2d-Flag (IP)

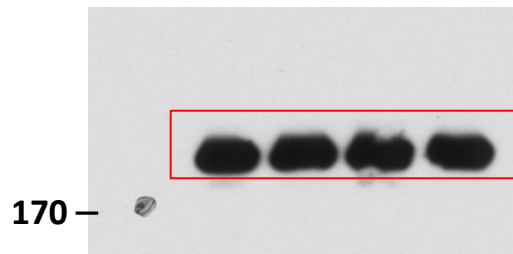


Fig 2d-Flag, HA (lysates)

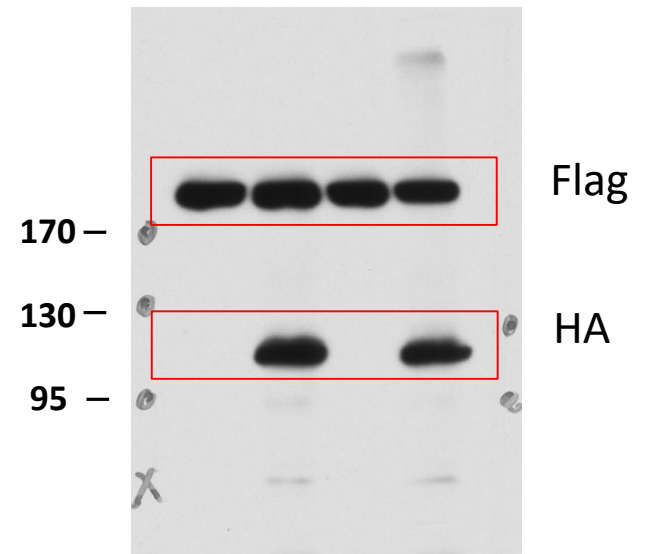


Fig 2e--Brg1

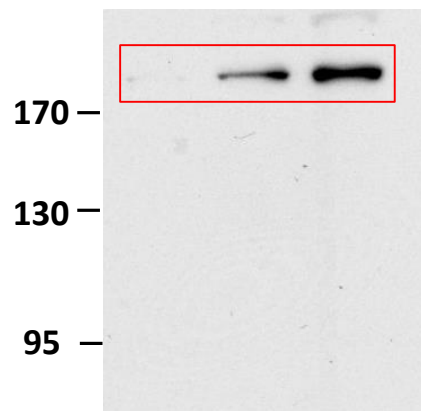


Fig 2e-CK1 $\delta$

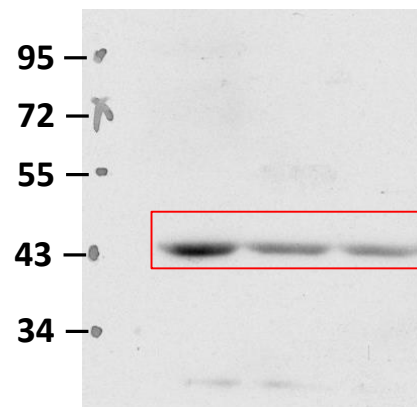
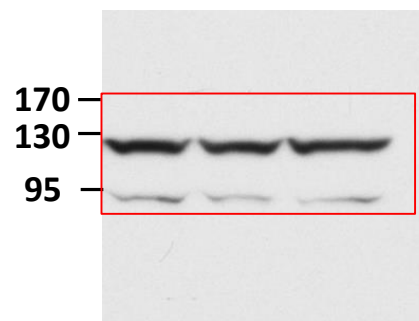


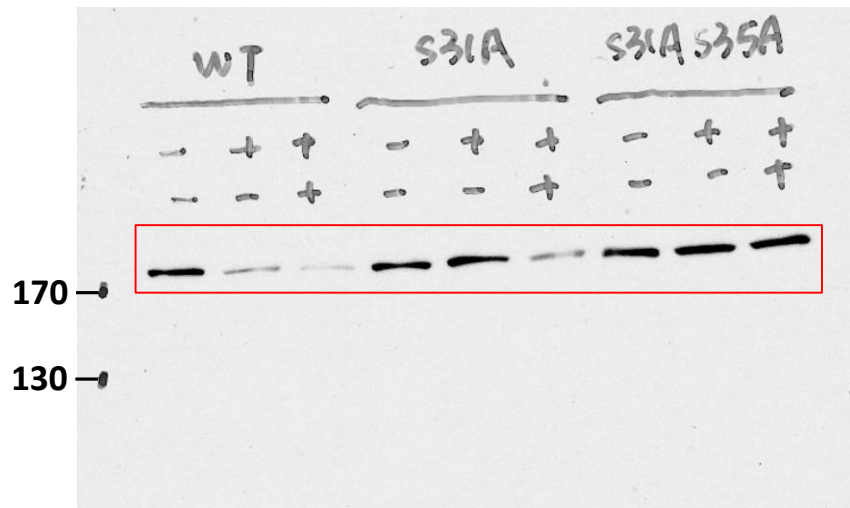
Fig 2e--Vinculin



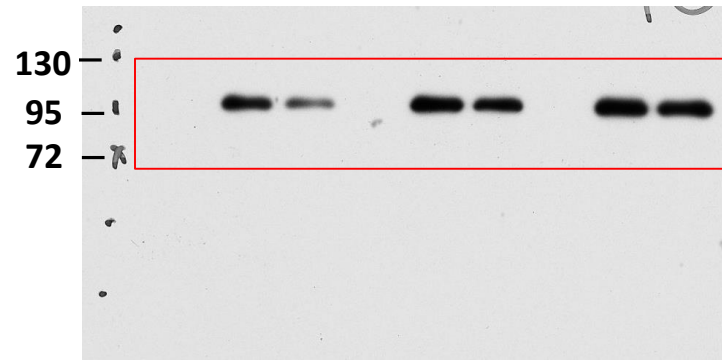


Uncropped blots related to Figure 2f

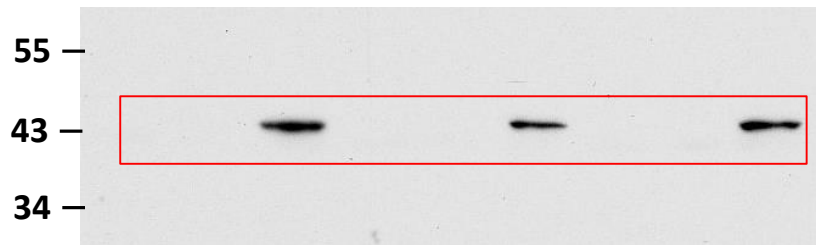
Flag-Brg1



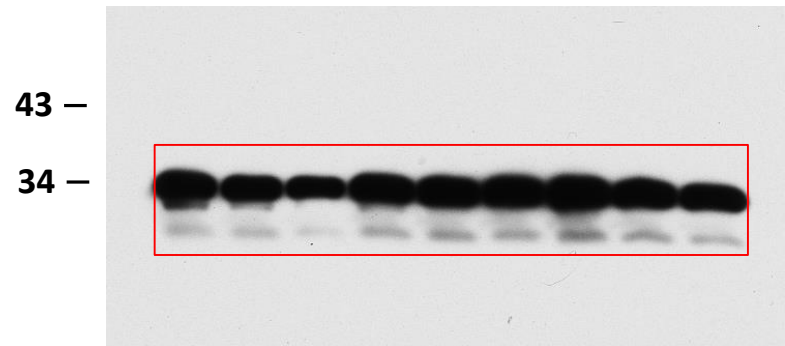
HA-FBW7



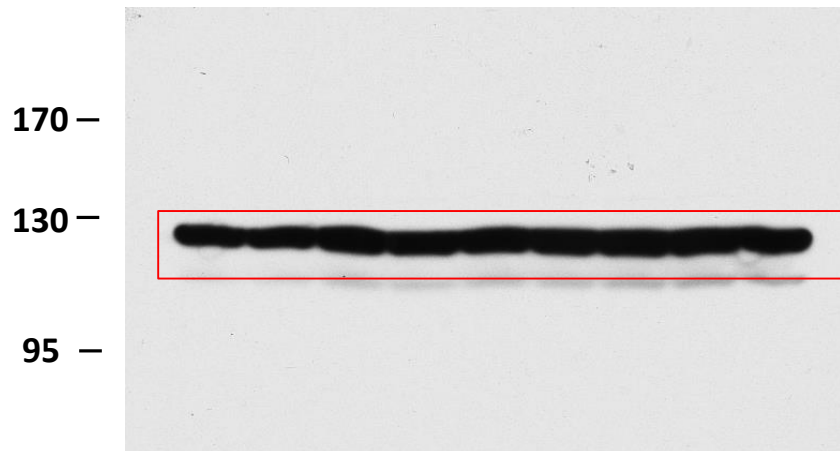
Myc-CK1δ



GFP

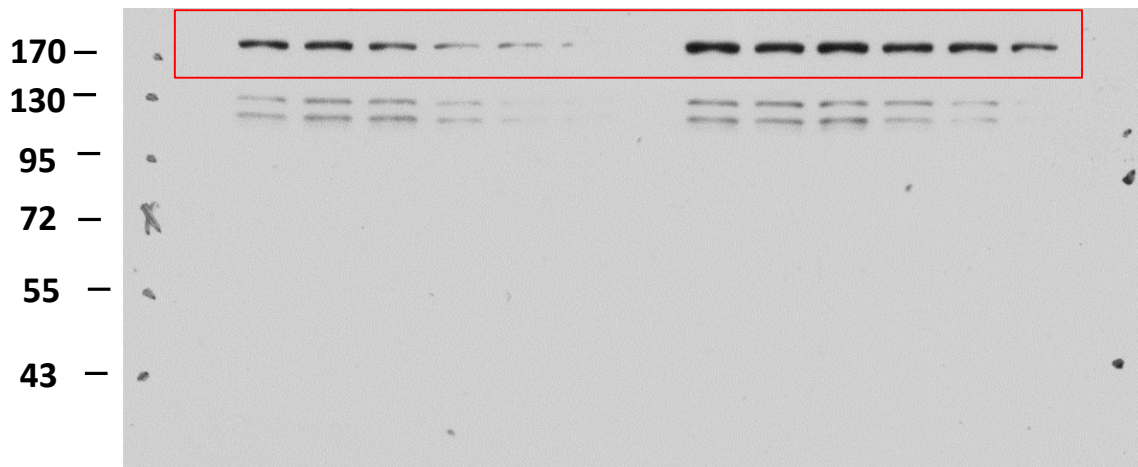


Vinculin

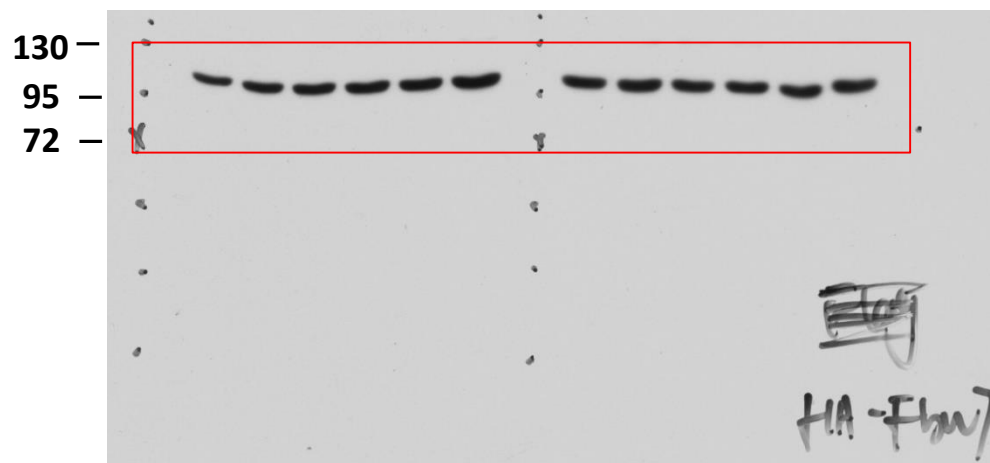


Uncropped blots related to Figure 2g

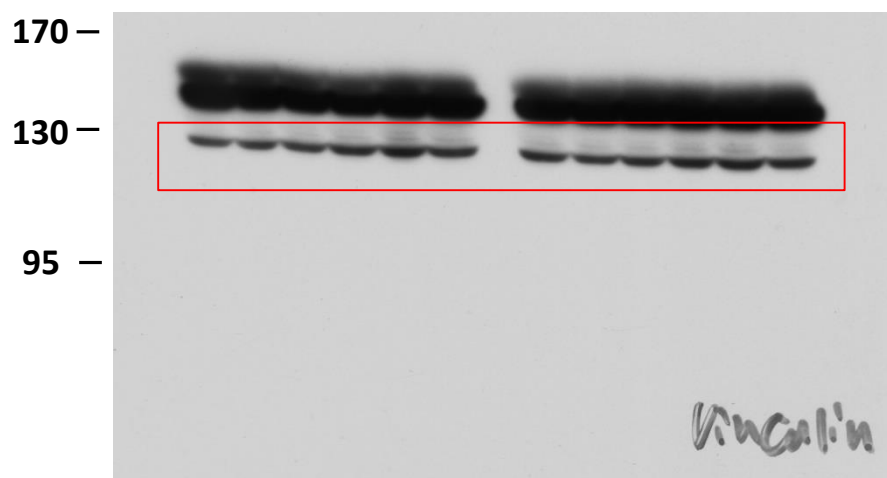
Flag-Brg1



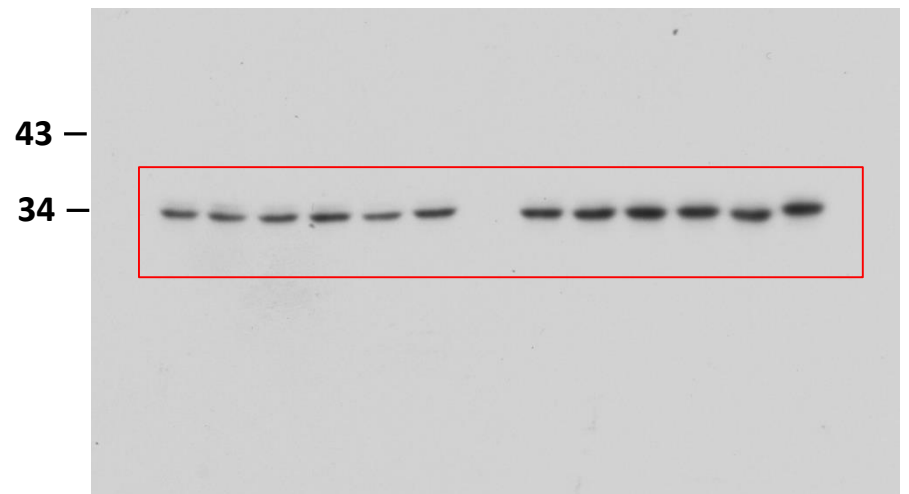
HA-FBW7



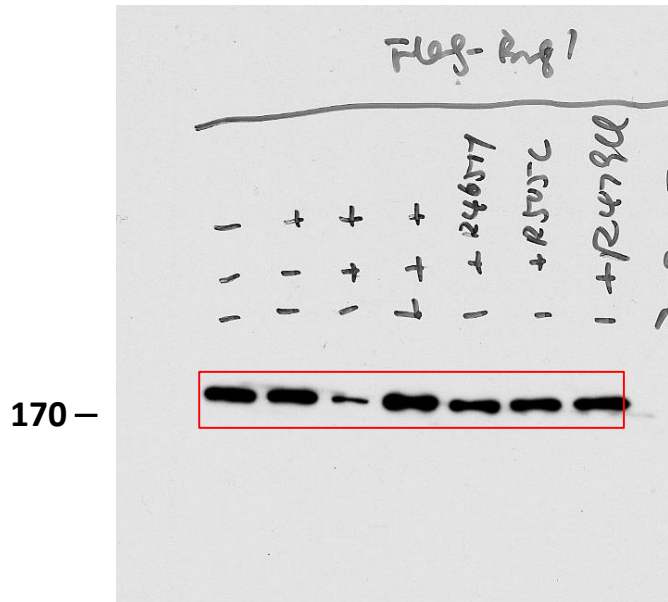
Vinculin



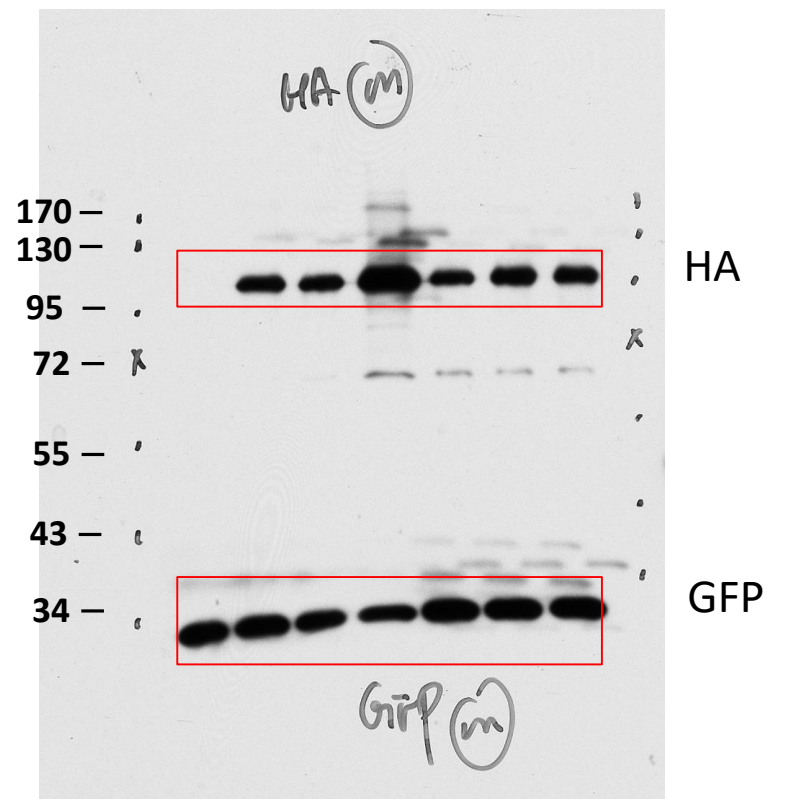
GFP



Flag-Brg1



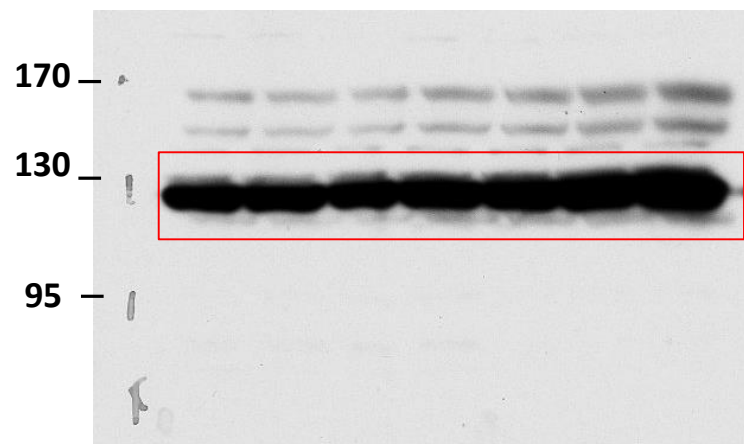
HA-FBW7, GFP



Myc-CK1δ

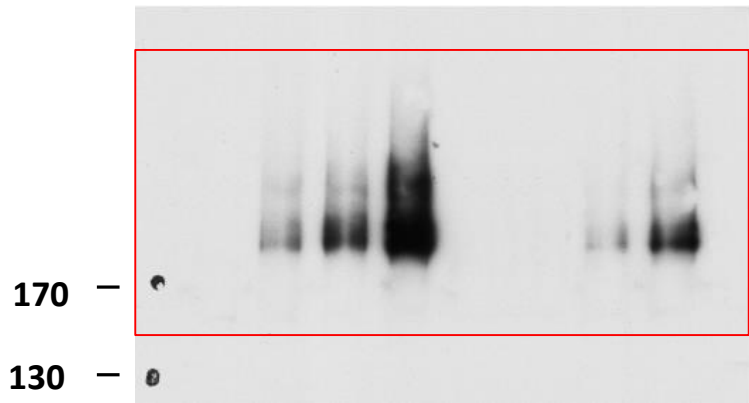


Vinculin

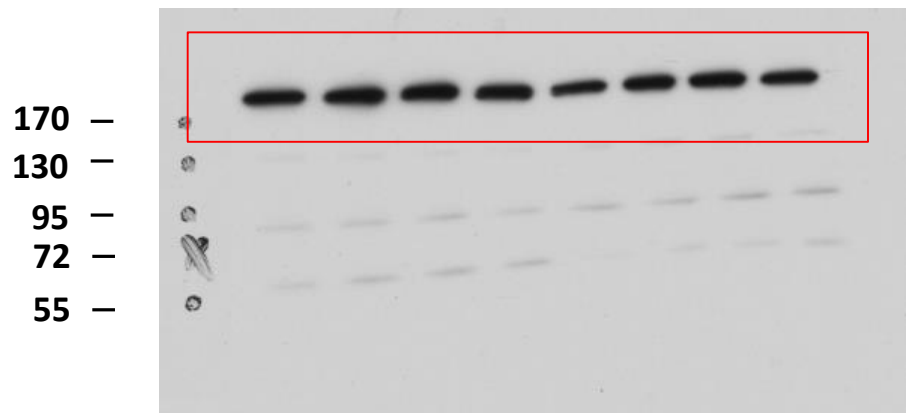


Uncropped blots related to Figure 2j

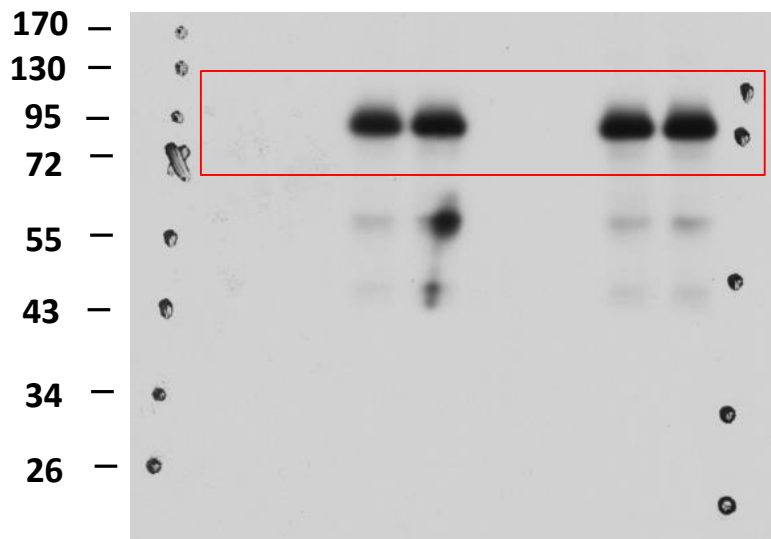
Flag (Ni-NTA)



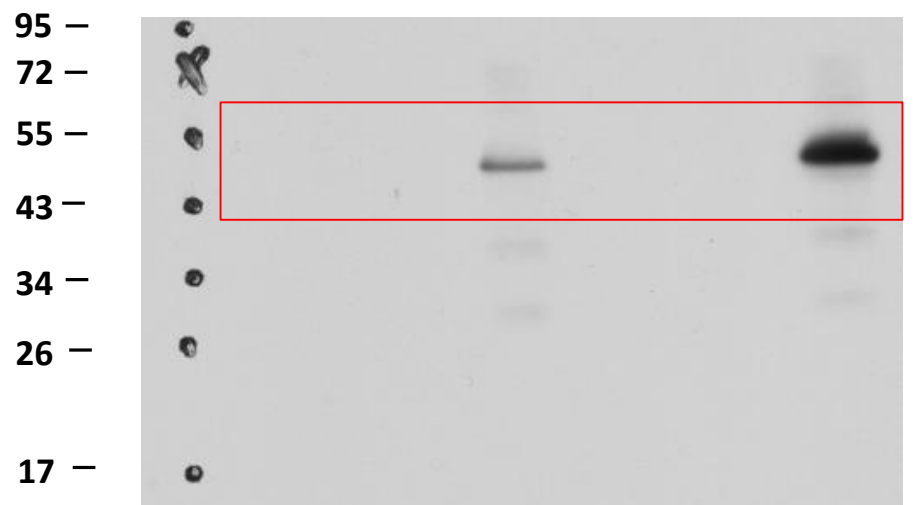
Flag (lysates)



HA (lysates)



Myc (lysates)



Uncropped blots related to Figure 4a, 4h

Fig 4a-Brg1

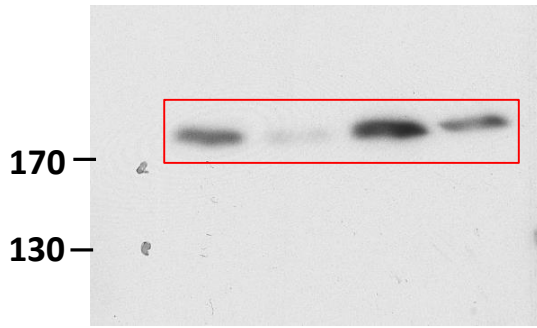


Fig4a-FBW7

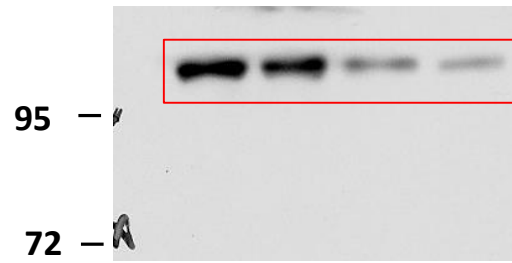


Fig4a-E-cadherin

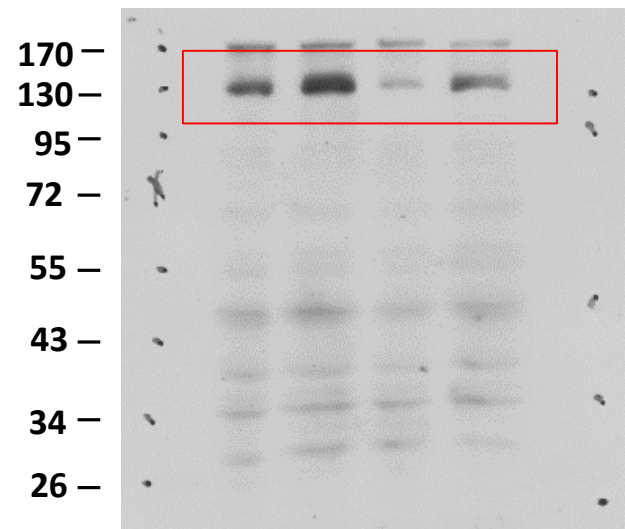


Fig4a-Vinculin

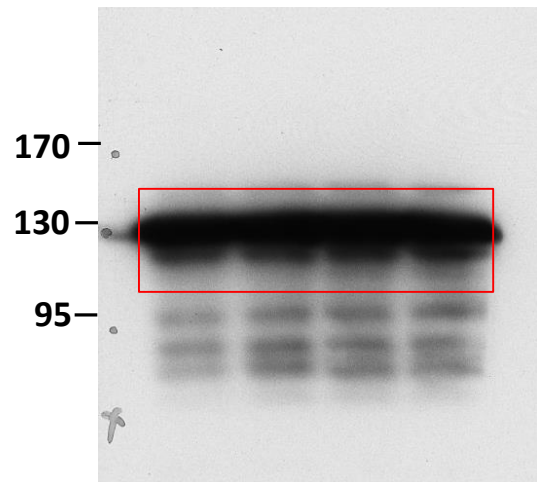


Fig4h-Brg1

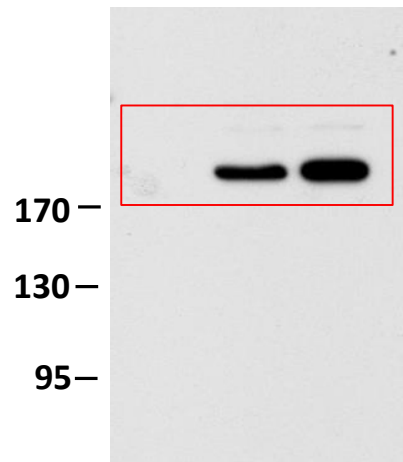


Fig4h-E-cadherin

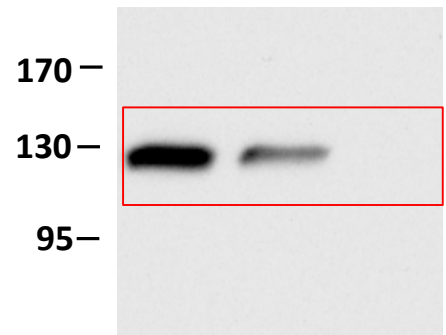


Fig4h-Vimentin

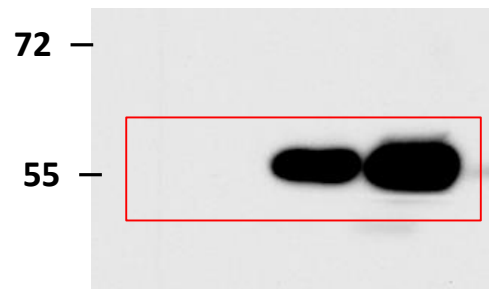
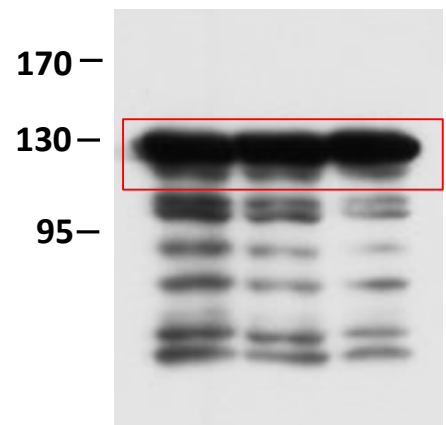


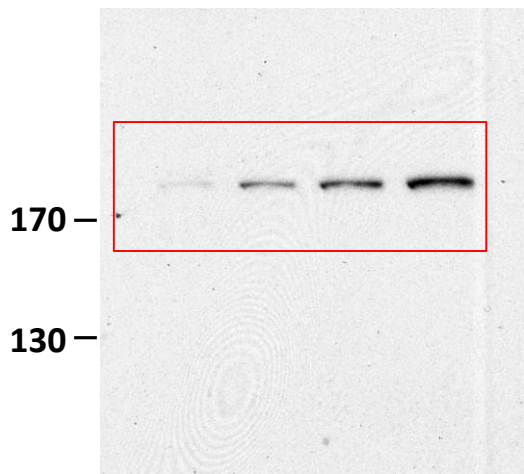
Fig4h-Vinculin



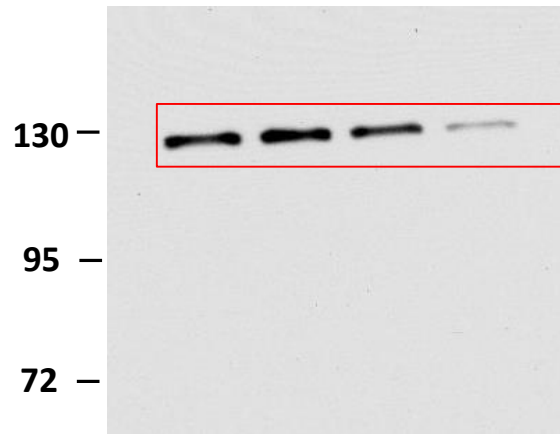


Uncropped blots related to Figure 5a

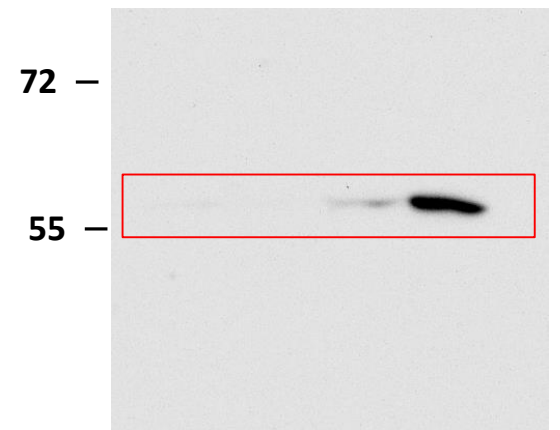
Brg1



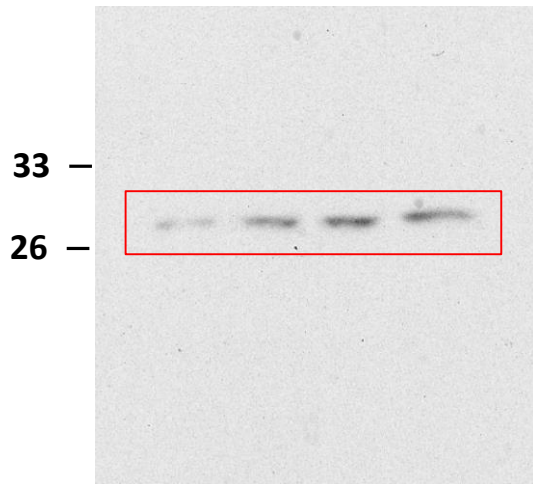
E-cadherin



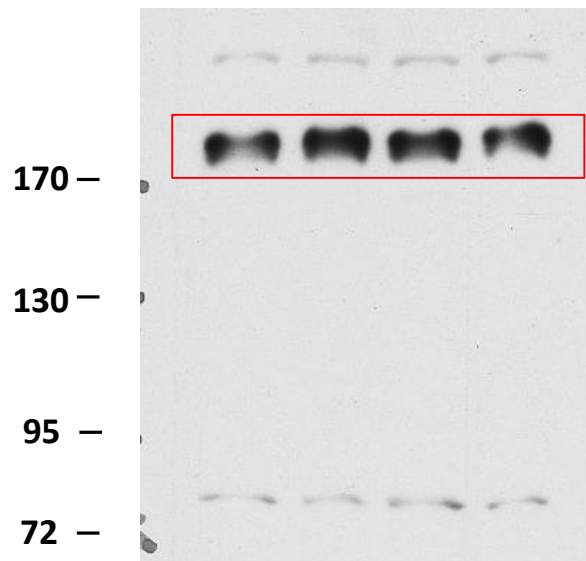
Vimentin



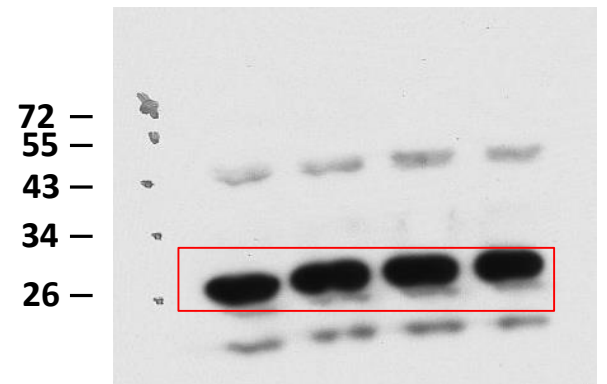
Snail



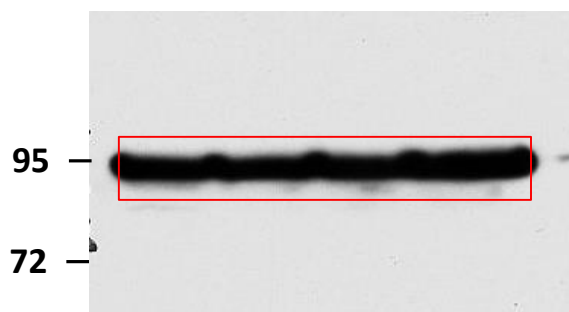
ZEB-1



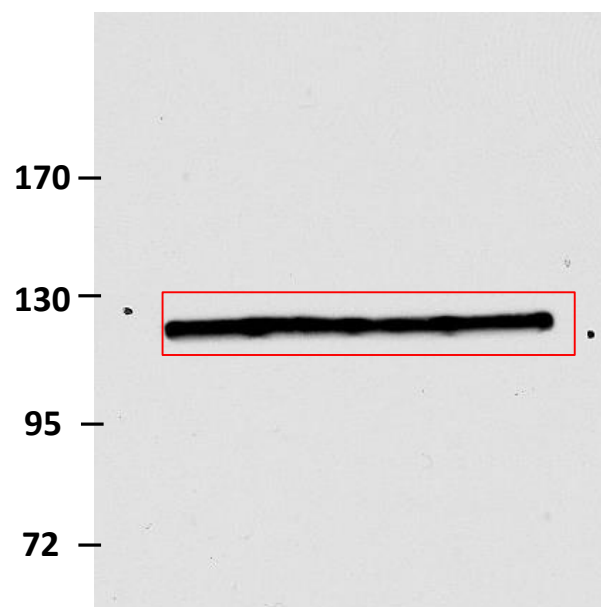
TWIST-1



$\beta$ -catenin

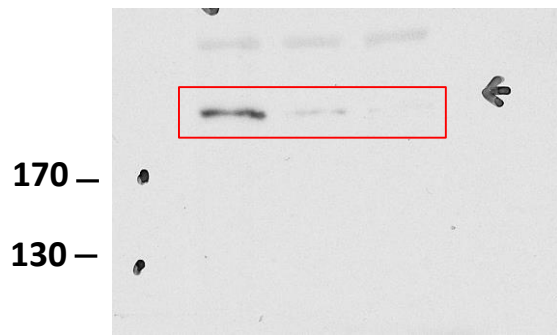


Vinculin

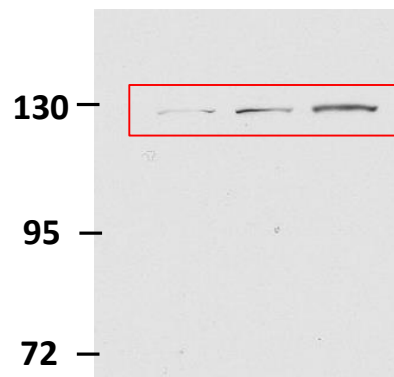


Uncropped blots related to Figure 5d

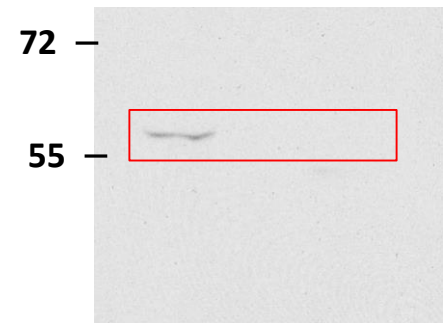
Brg1



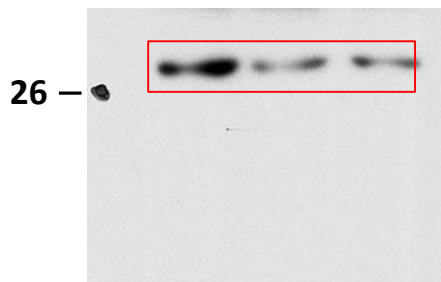
E-cadherin



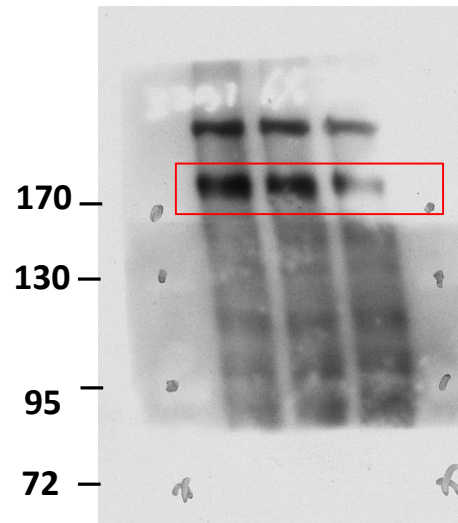
Vimentin



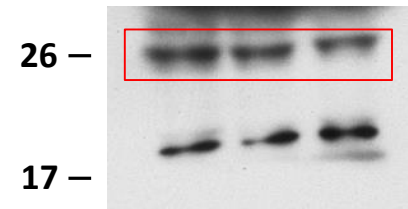
Snail



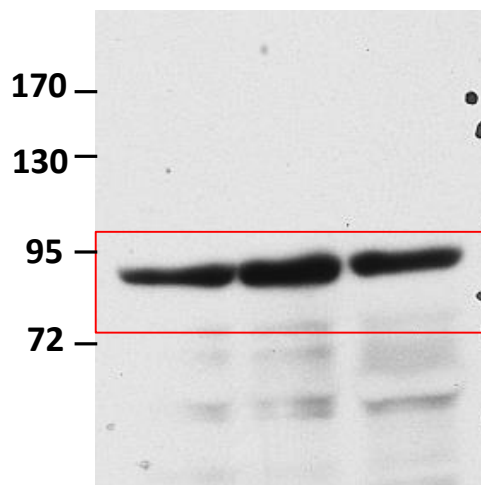
ZEB-1



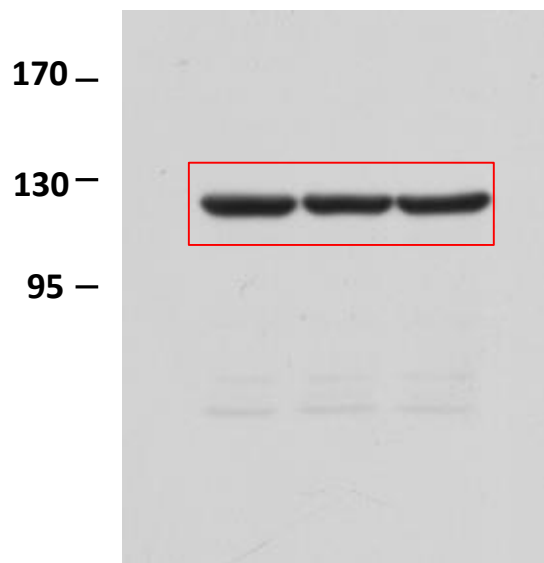
TWIST-1



$\beta$ -catenin



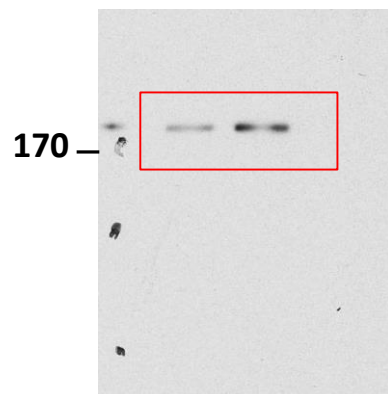
Vinculin



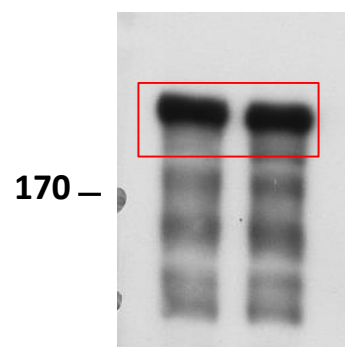


Uncropped blots related to Figure S1a

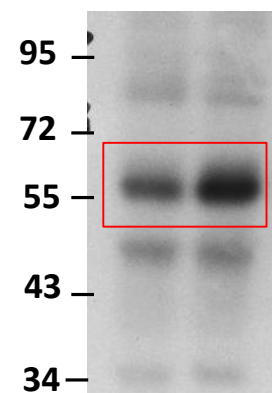
Brg1



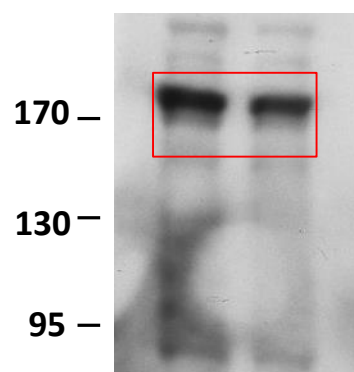
Arid1a



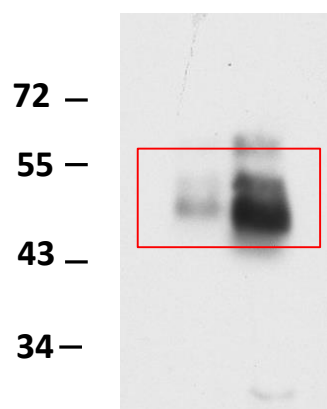
c-Myc



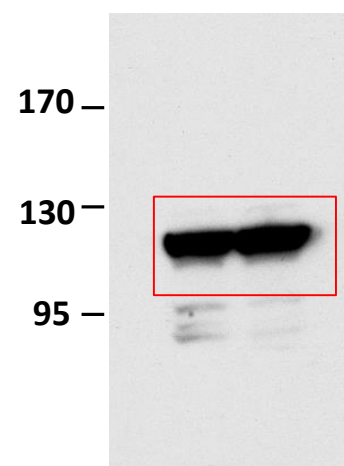
BRM



cyclinE

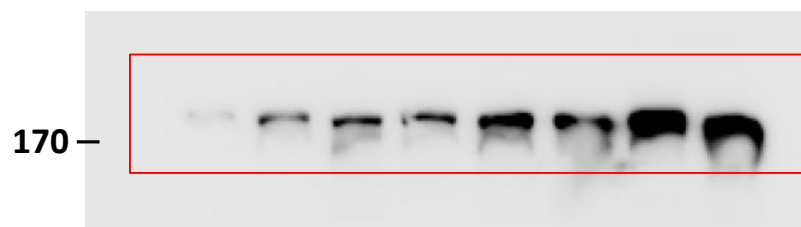


Vinculin

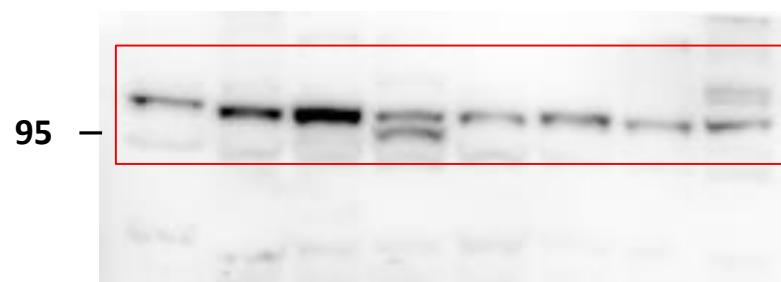


Uncropped blots related to Figure S1c

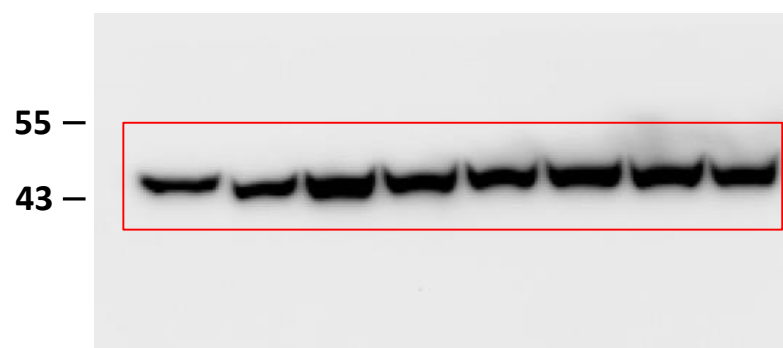
Brg1



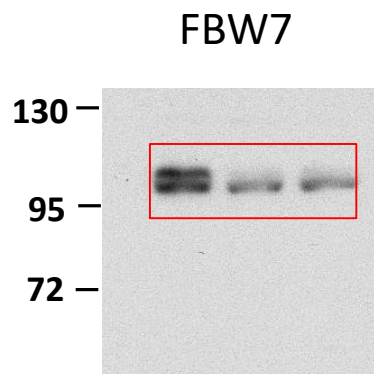
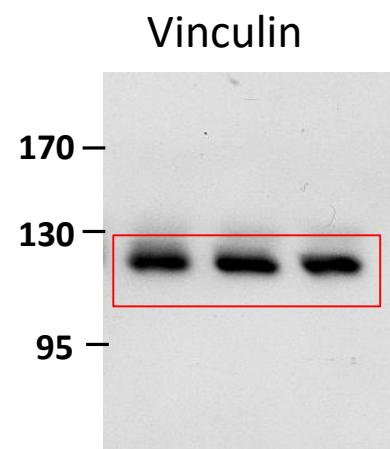
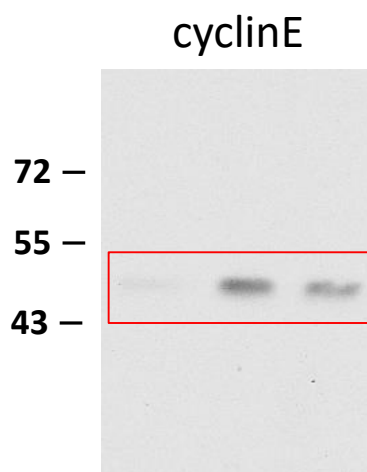
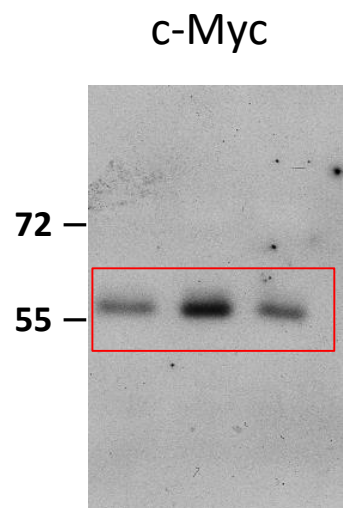
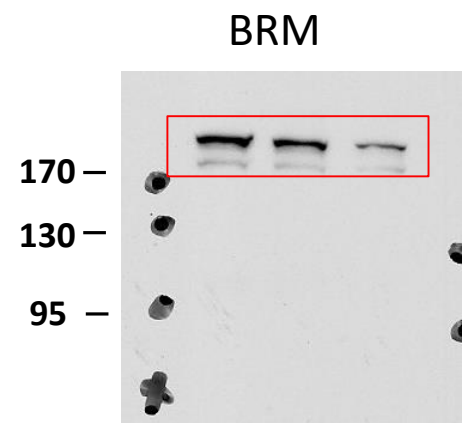
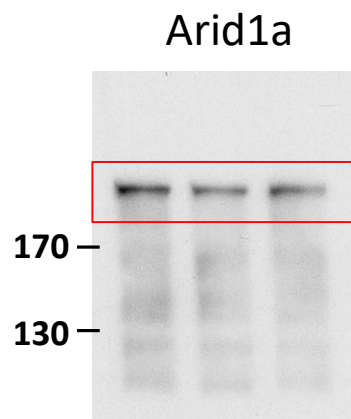
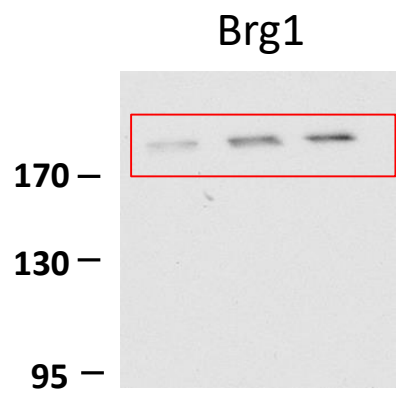
FBW7



Actin

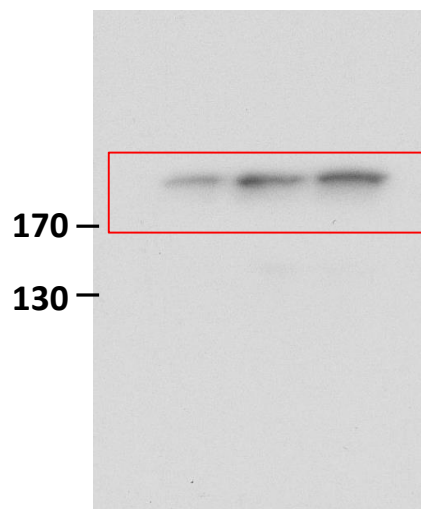


Uncropped blots related to Figure S1d

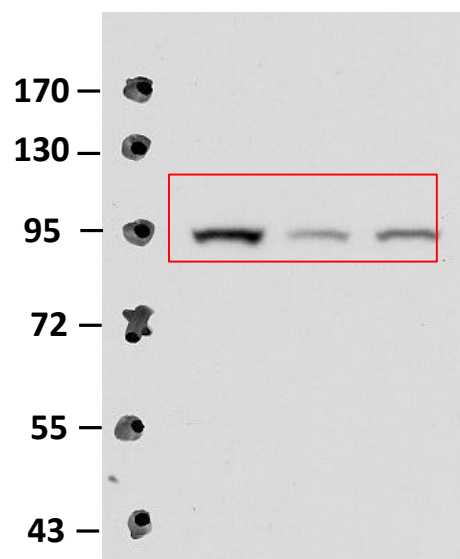


Uncropped blots related to Figure S1f, S1g

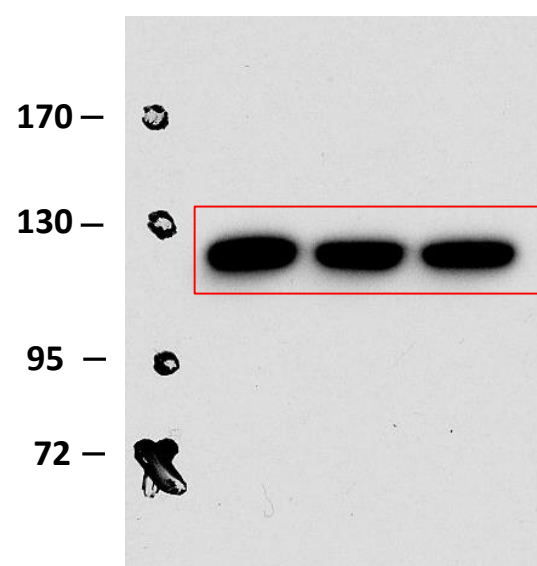
FigS1f-Brg1



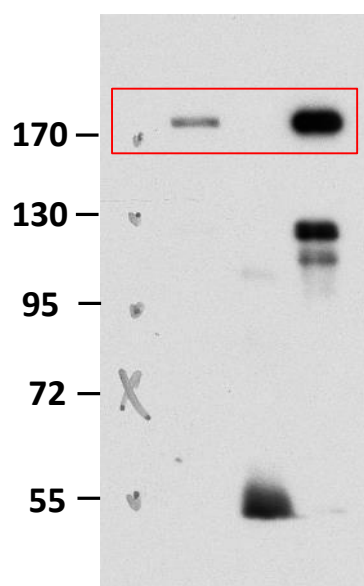
FigS1f-Cul1



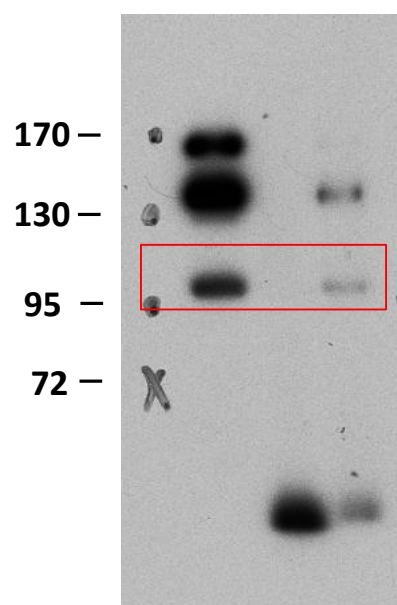
FigS1f-Vinculin



FigS1g-Brg1 (IP)

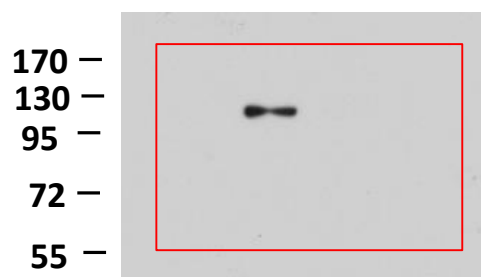


FigS1g-FBW7 (IP)

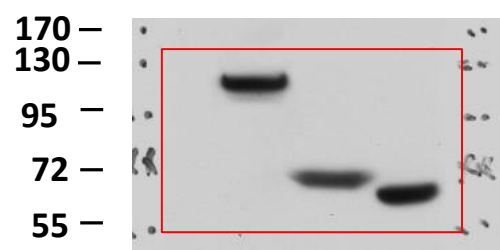


Uncropped blots related to Figure S2b

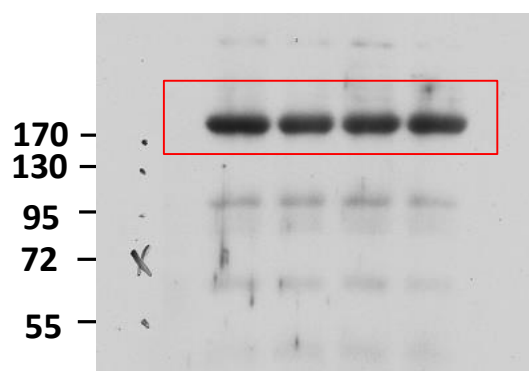
Flag (IP)



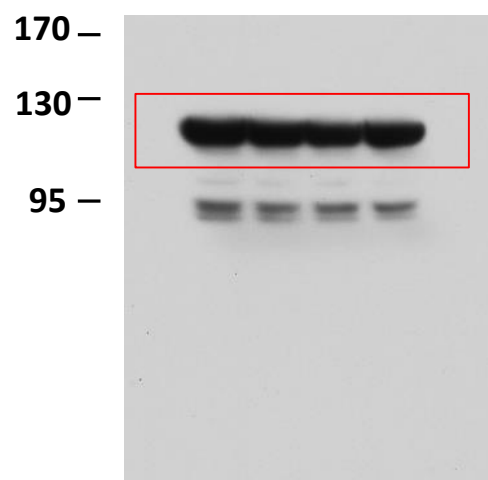
Flag (lysates)



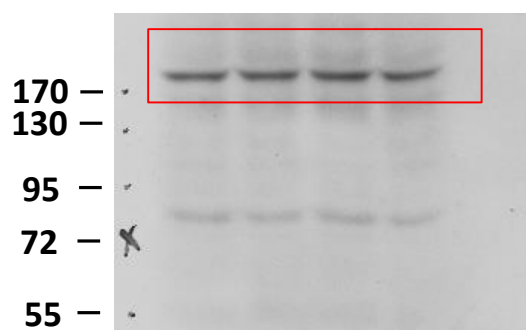
HA (IP)



Vinculin (lysates)

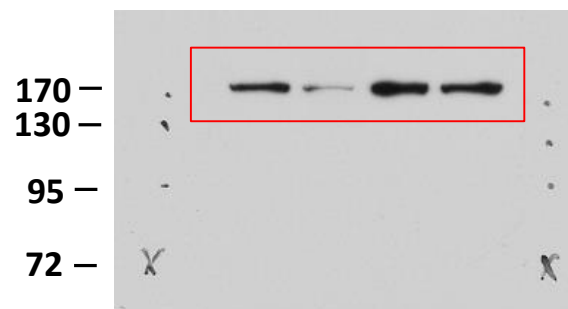


HA (lysates)

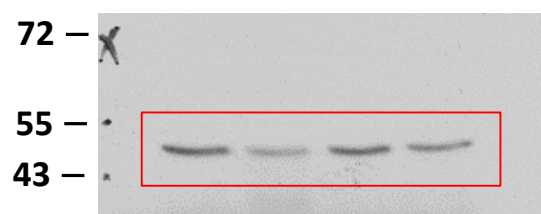


Uncropped blots related to Figure S2c

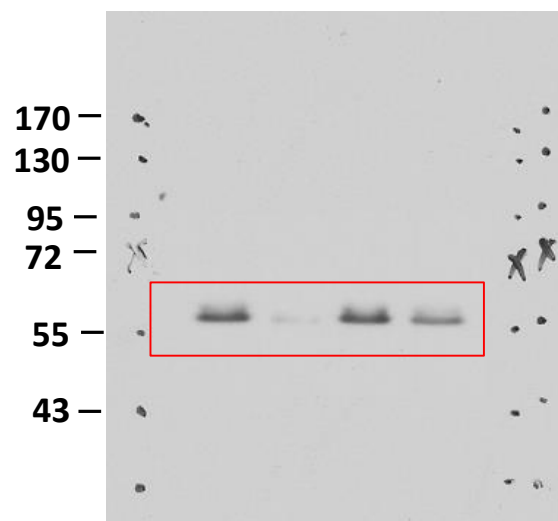
Brg1



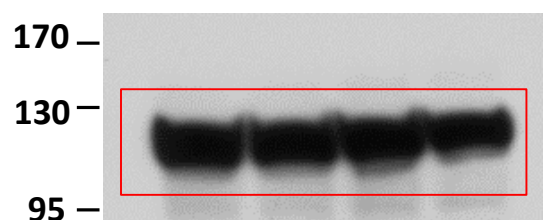
Cyclin E



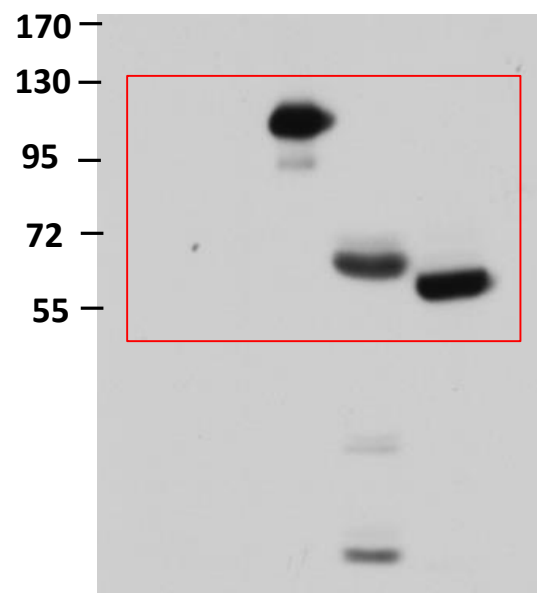
c-myc



Vinculin

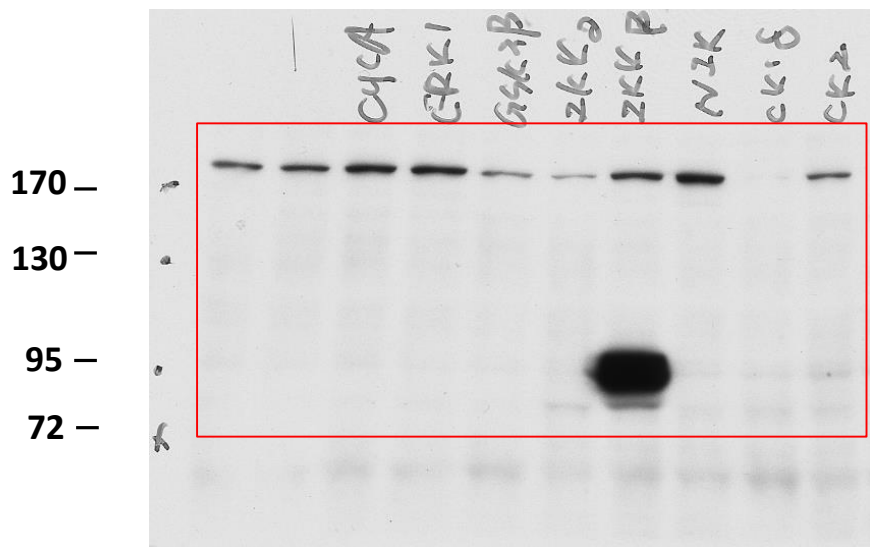


Flag

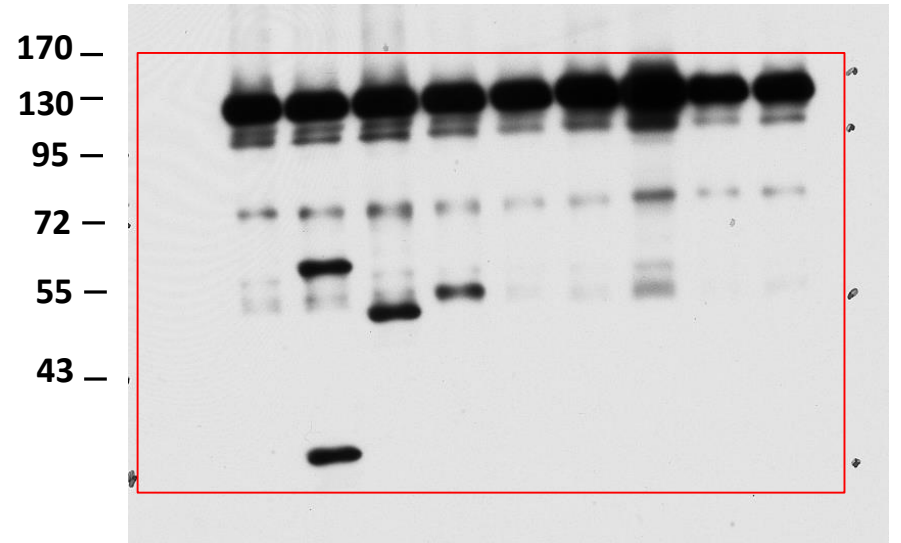


Uncropped blots related to Figure S3a

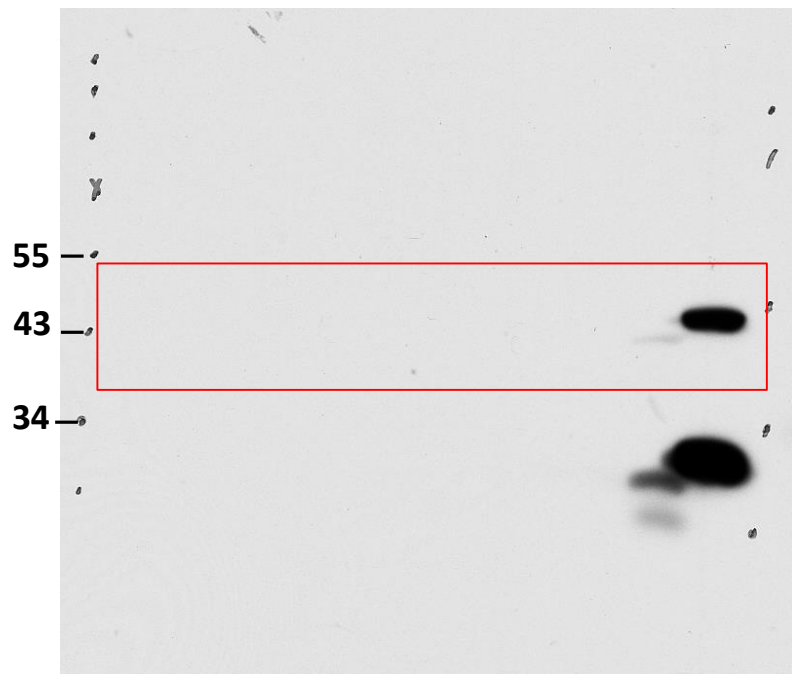
Flag



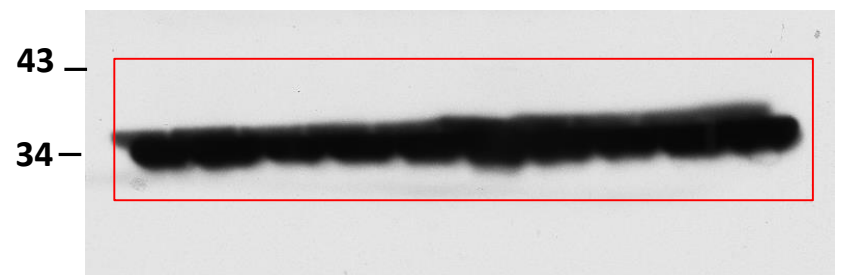
HA



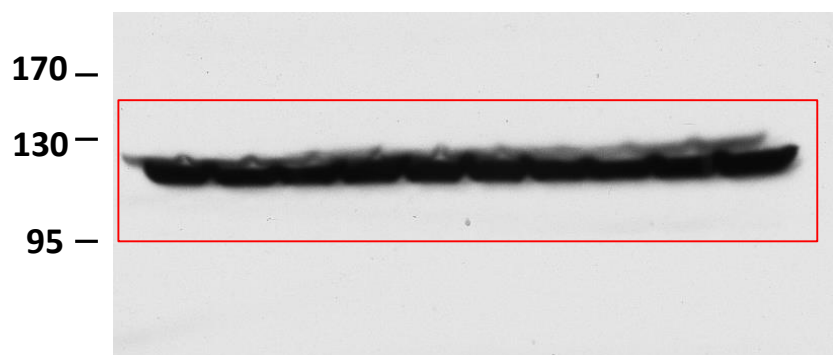
Myc



GFP



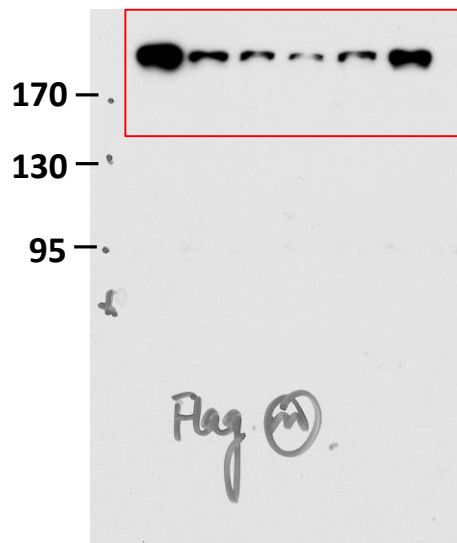
Vinculin



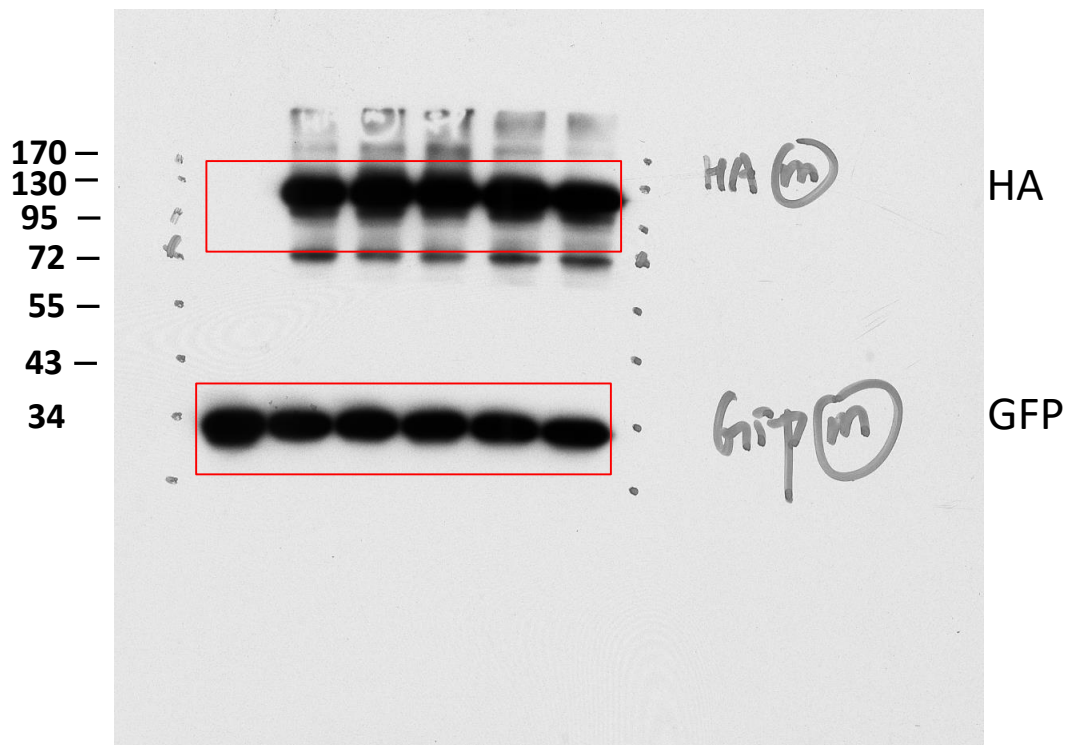
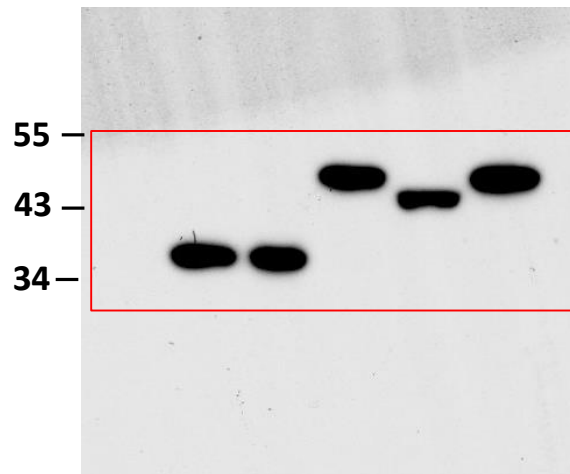


Uncropped blots related to Figure S3b

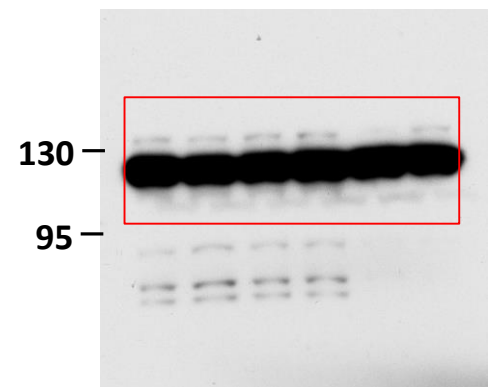
Flag



Myc



Vinculin



Uncropped blots related to Figure S3c, S3d

Fig S3C-Myc (IP)

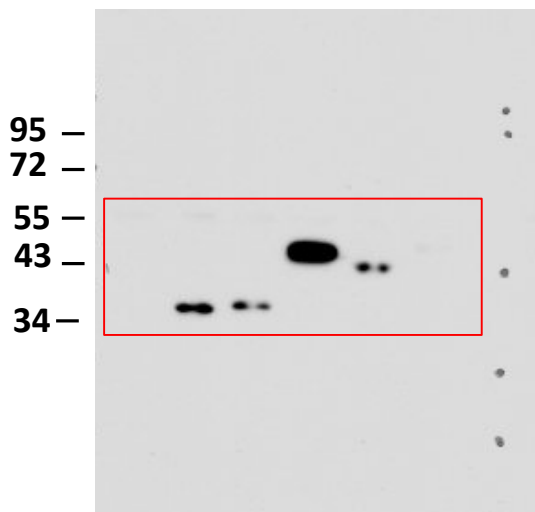


Fig S3C-Flag (IP)

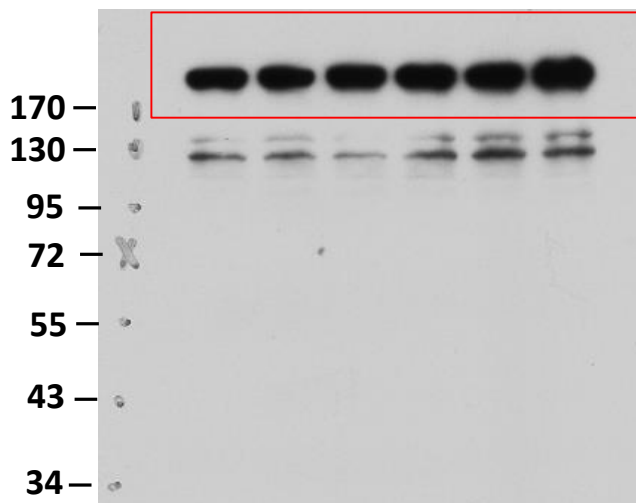


Fig S3c-Myc (lysates)

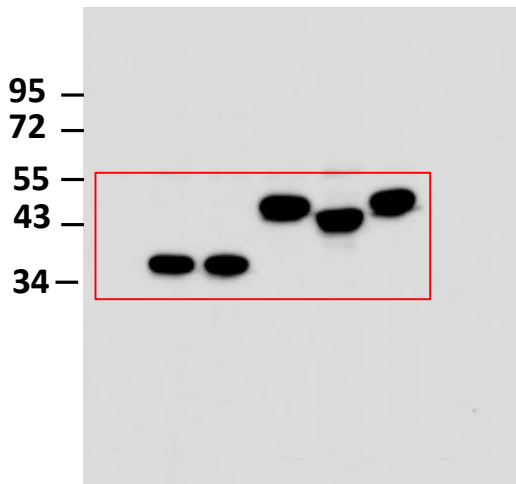


Fig S3C-Flag (lysates)

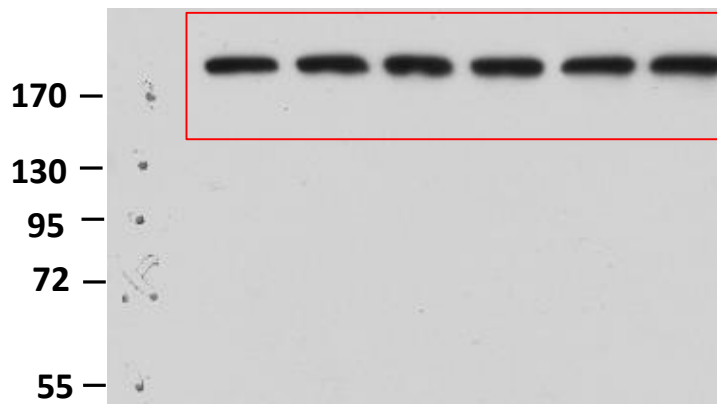


Fig S3d-Brg1

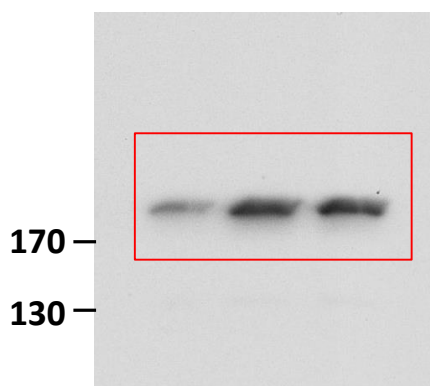


Fig S3d-CK1 $\delta$

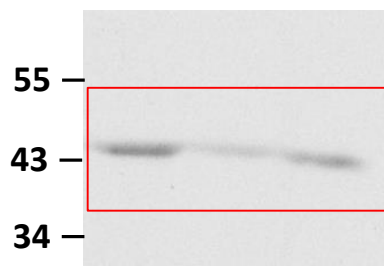
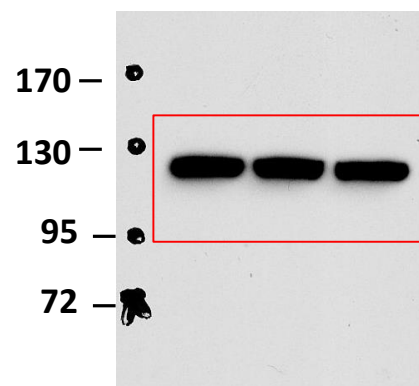
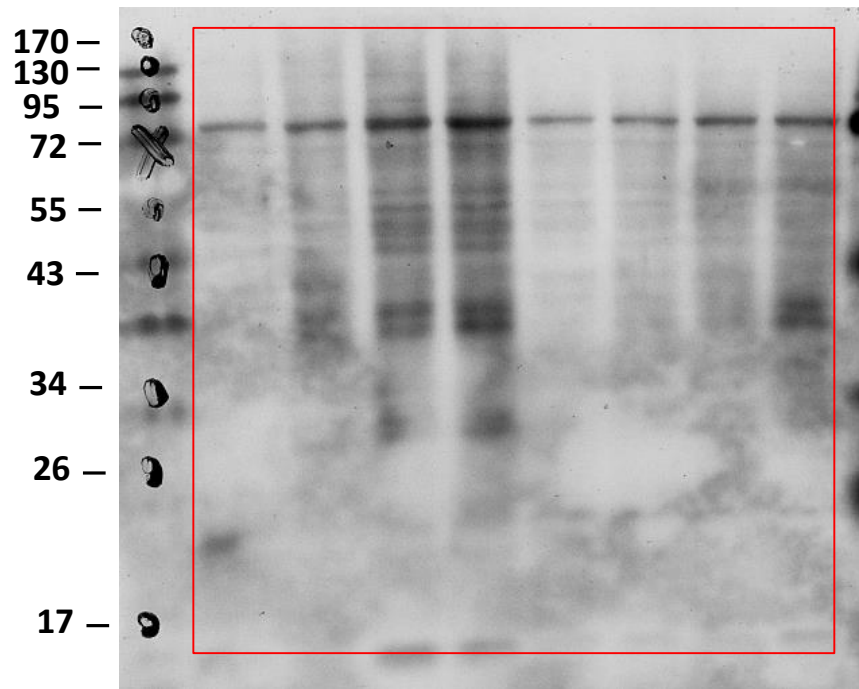


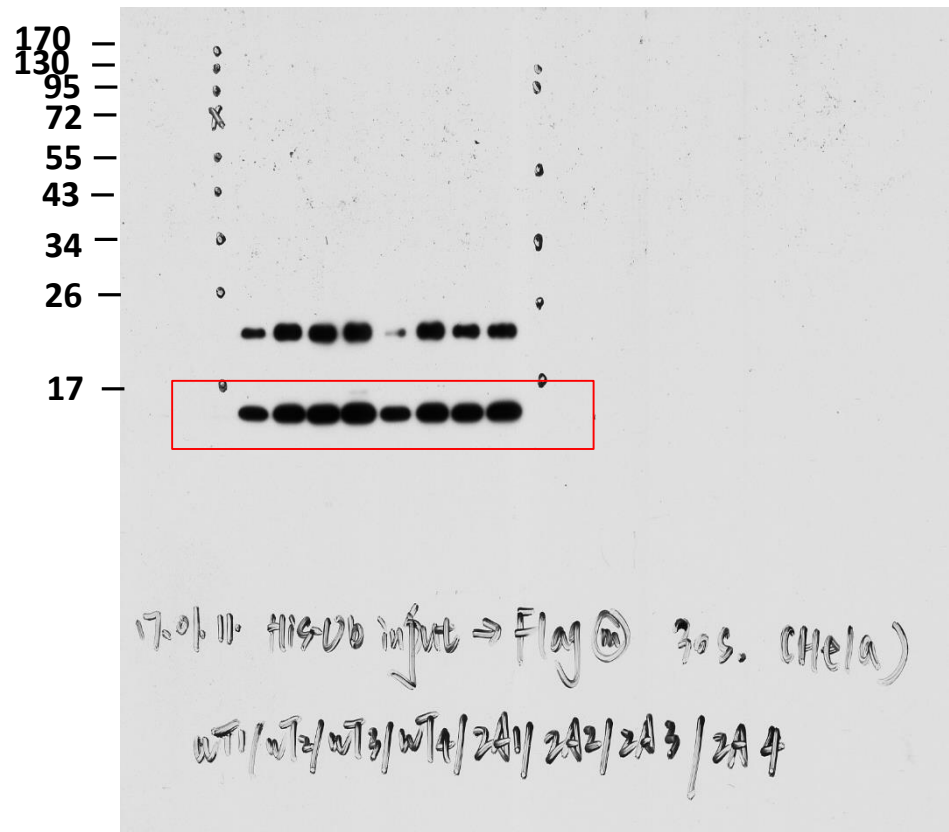
Fig S3d-Vinculin



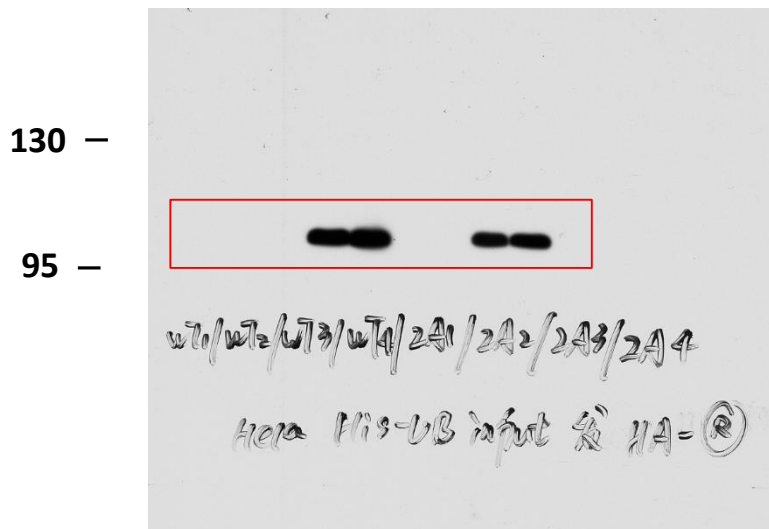
Flag (Ni-NTA)



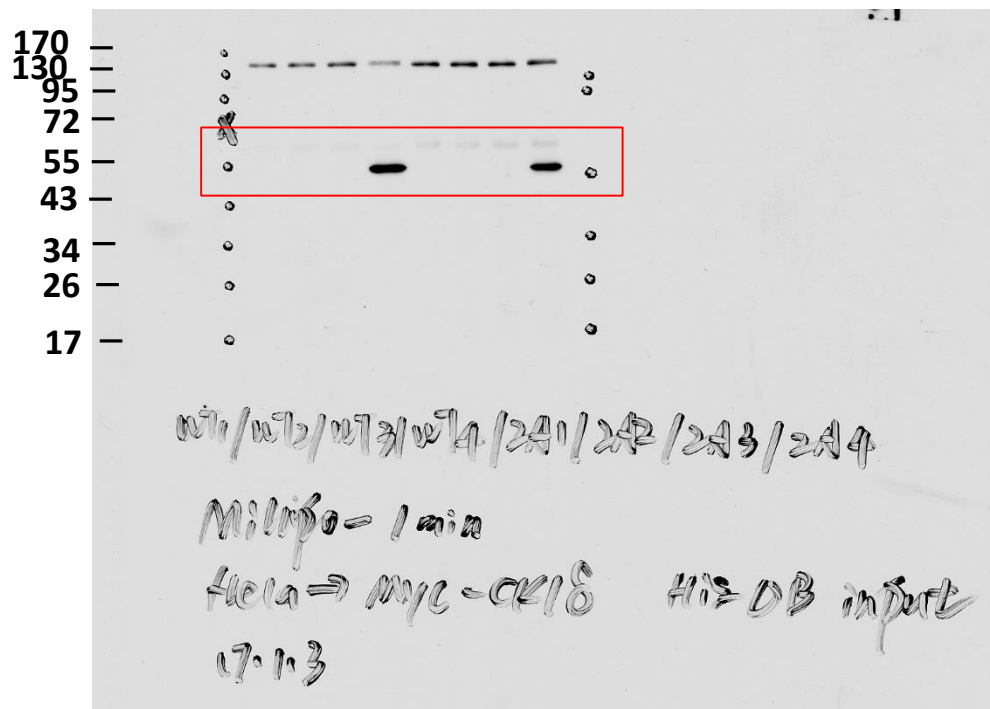
Flag (lysates)



HA

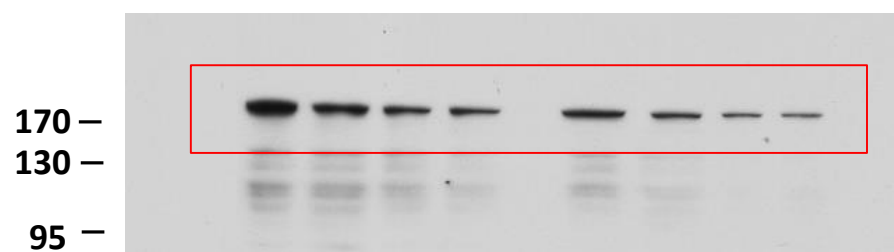


Myc

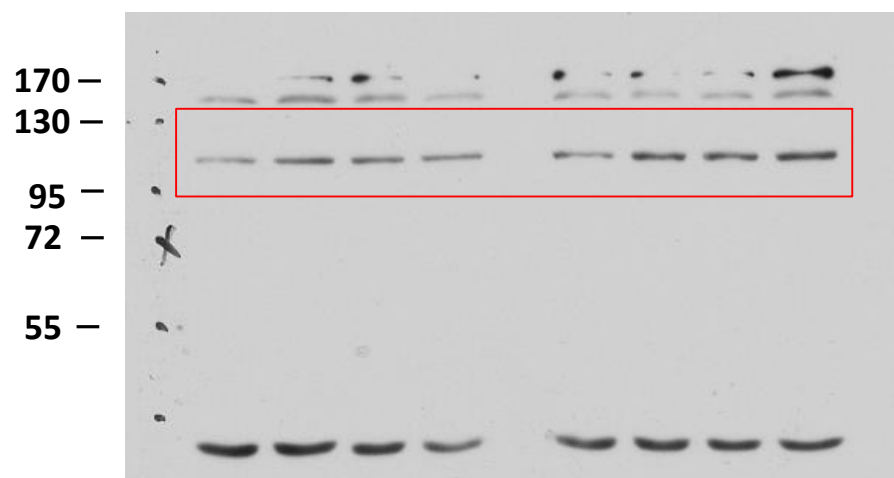


Uncropped blots related to Figure S4a

Brg-1



Fbw7

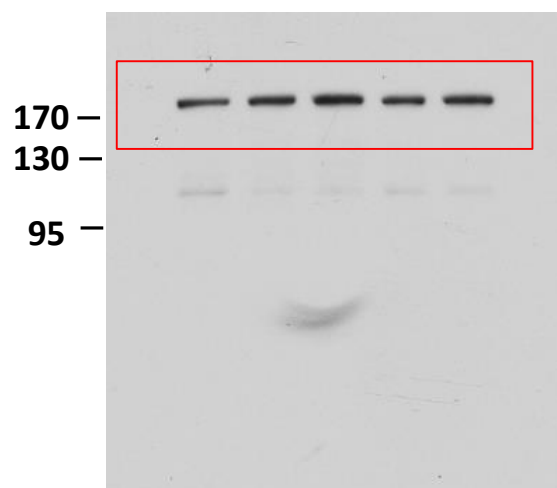


Vinculin

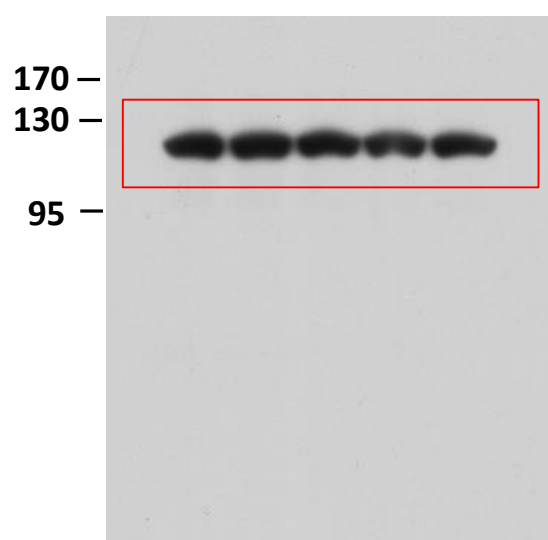


Uncropped blots related to Figure S4b

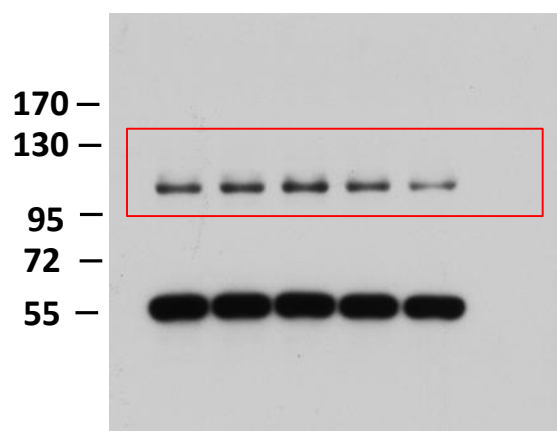
Brg-1



Vinculin

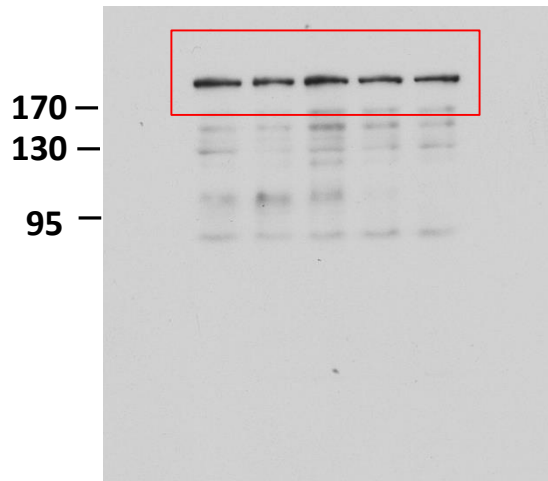


Fbw7

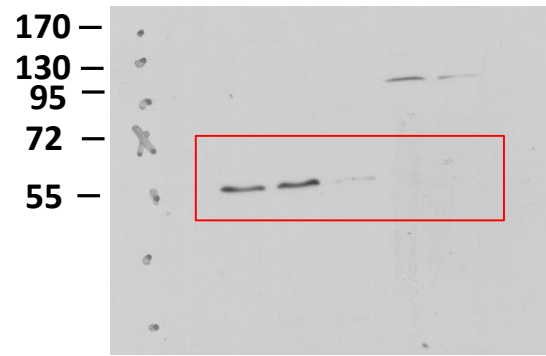


Uncropped blots related to Figure S4c

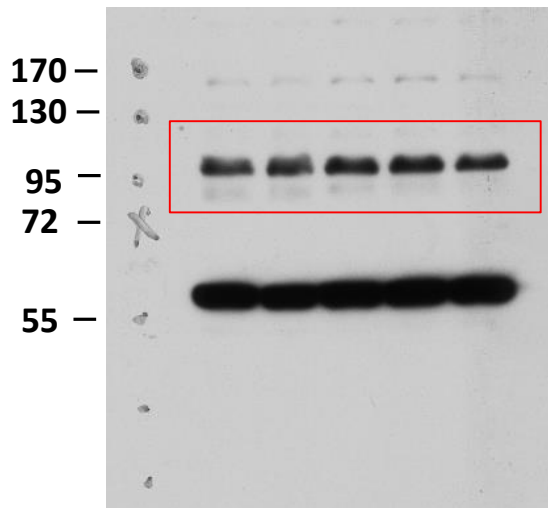
Brg-1



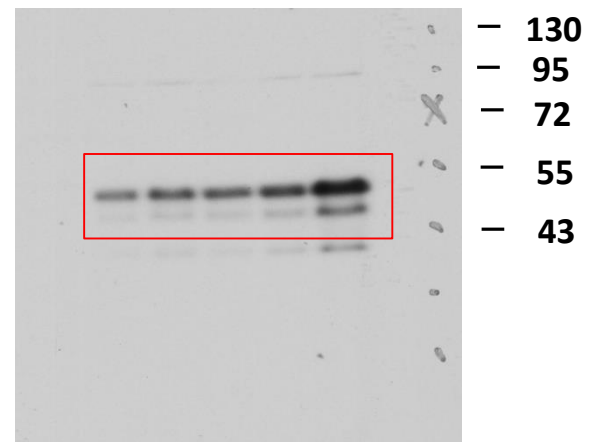
Cyclin B



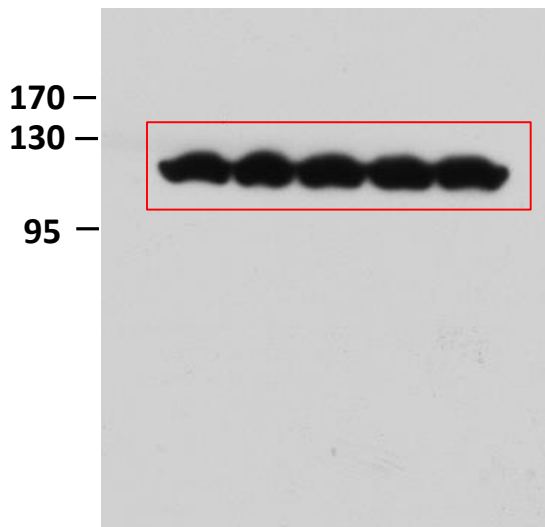
Fbw7



Cyclin E

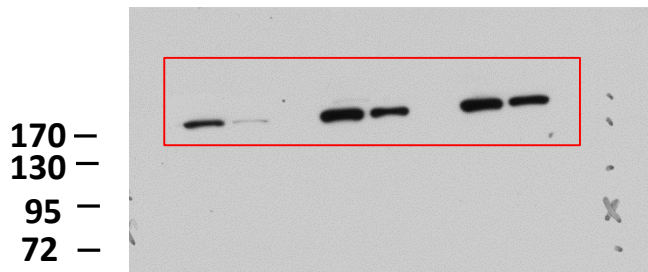


Vinculin

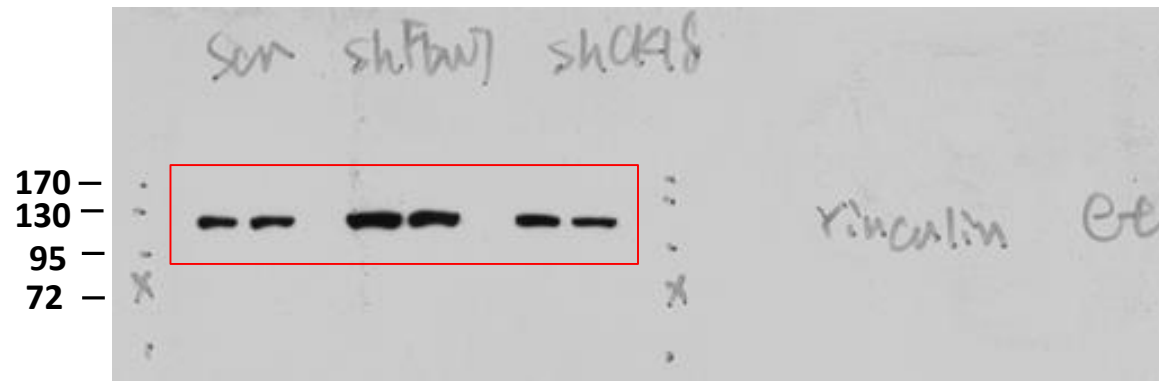


Uncropped blots related to Figure S4d

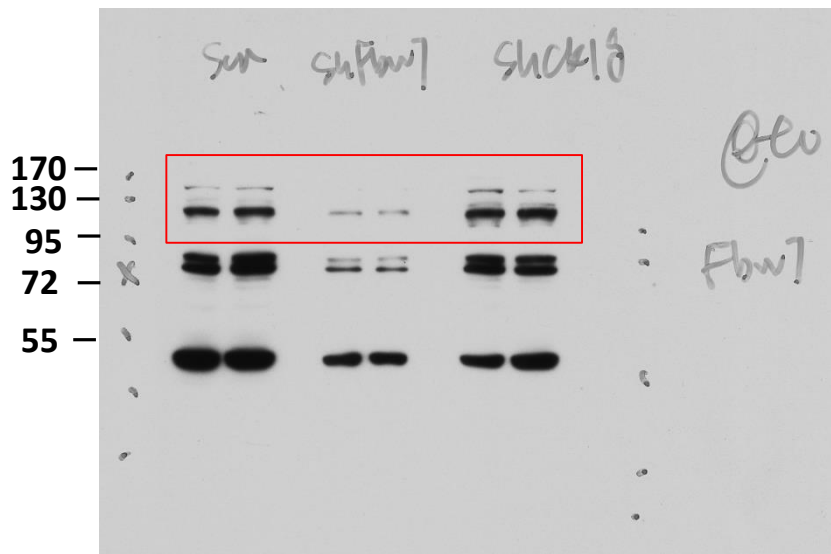
Brg-1



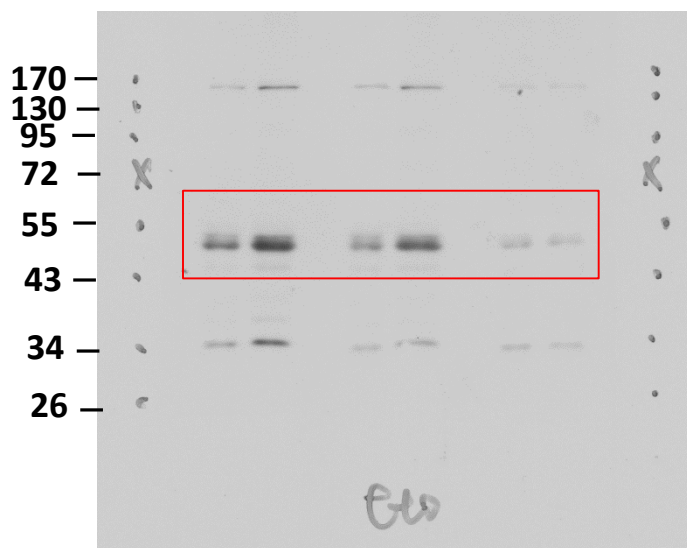
Vinculin



Fbw7



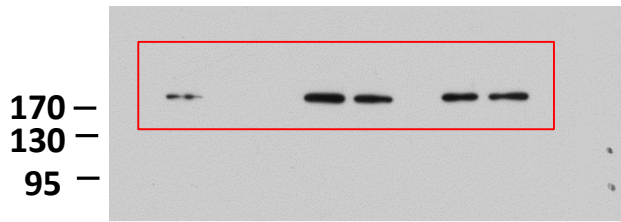
CK 1δ



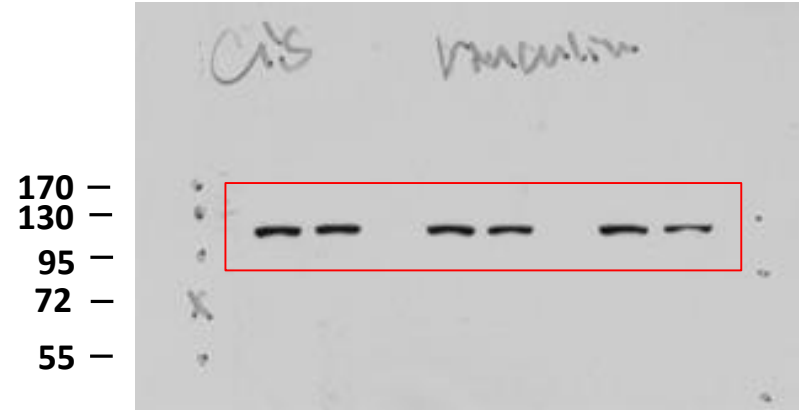


Uncropped blots related to Figure S4e

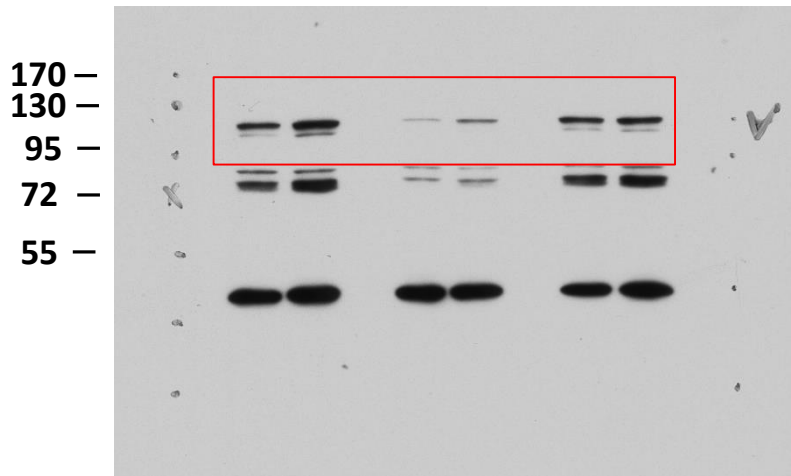
Brg-1



Vinculin



Fbw7



CK 1δ

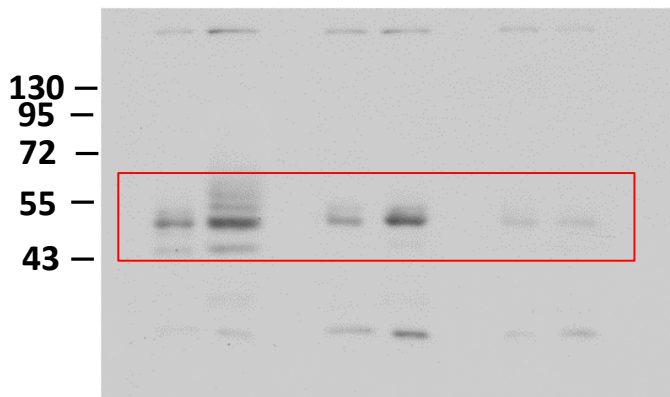


Fig S4f-Brg-1 (IP)

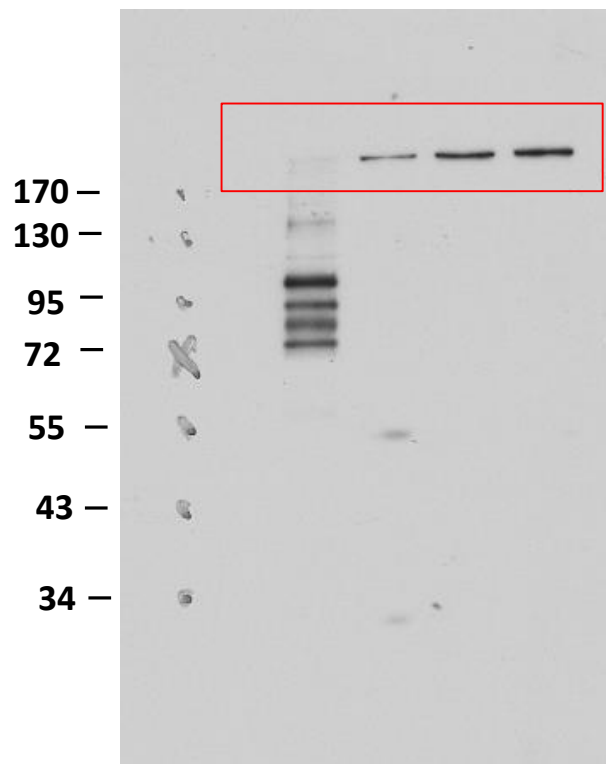


Fig S4g-Ub (IP)

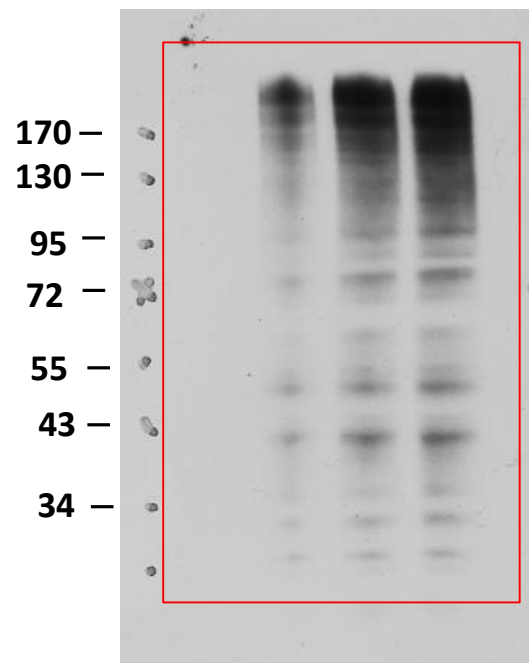


Fig S4f-Fbw7 (IP)

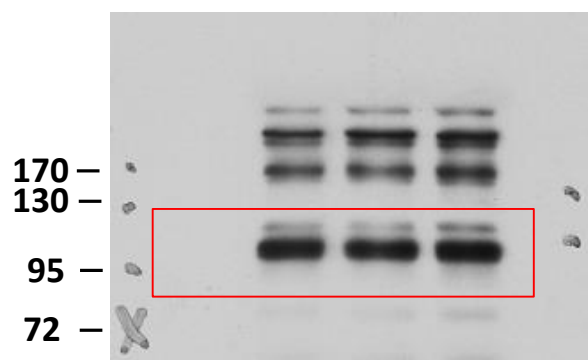


Fig S4g-Brg-1 (Lysates)

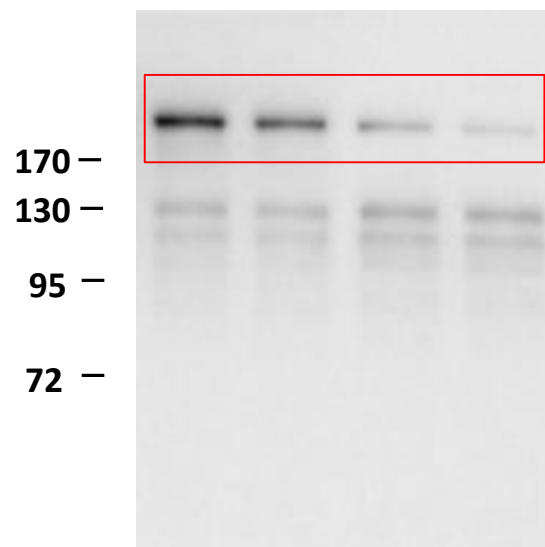
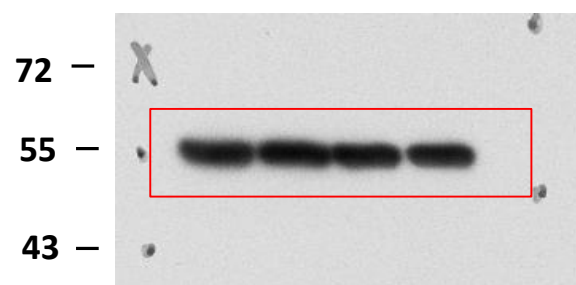


Fig S4g-Tubulin (Lysates)



Uncropped blots related to Figure S9a, S9d

Fig S9a-c-JUN

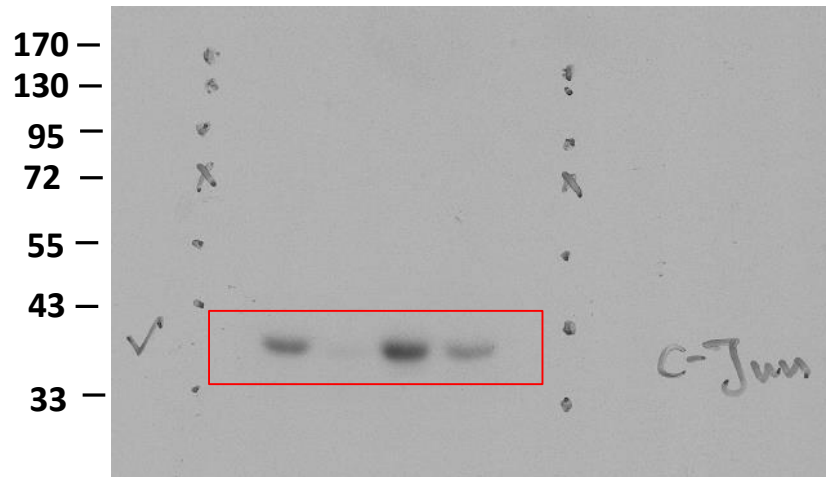


Fig S9d-KLF-2

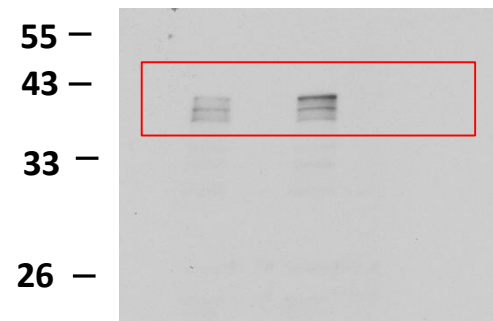


Fig S9d-FBW7

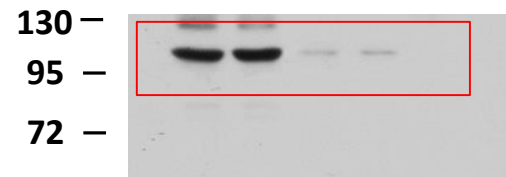


Fig S9a-FBW7

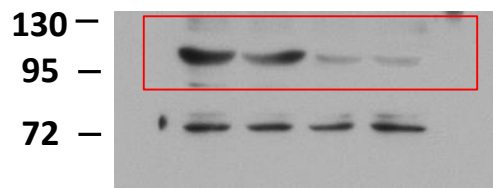


Fig S9d-Vinculin

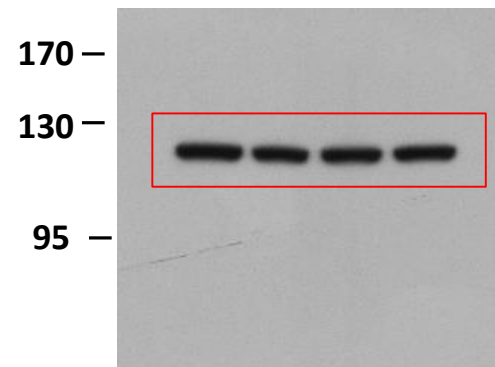
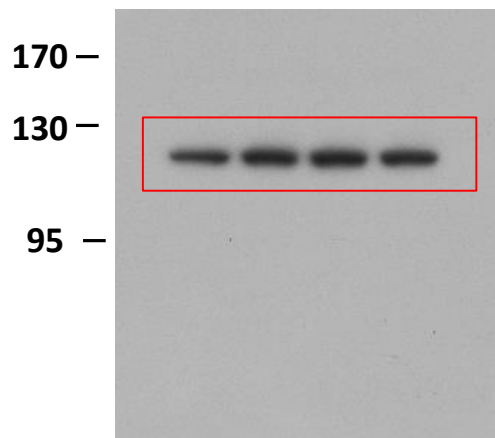
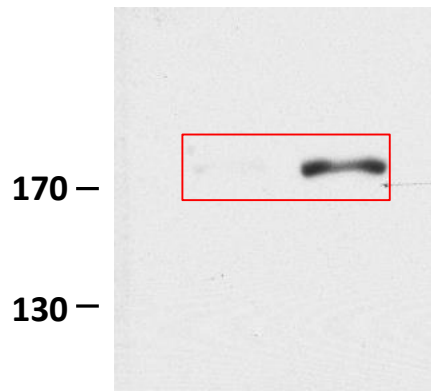


Fig S9a-Vinculin

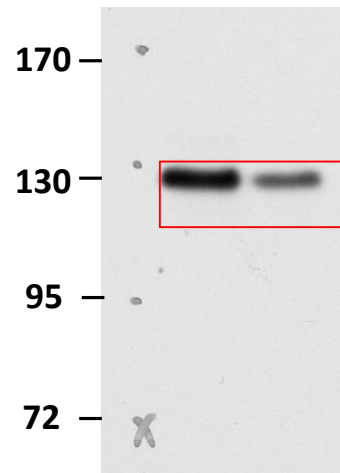


Uncropped blots related to Figure S11a

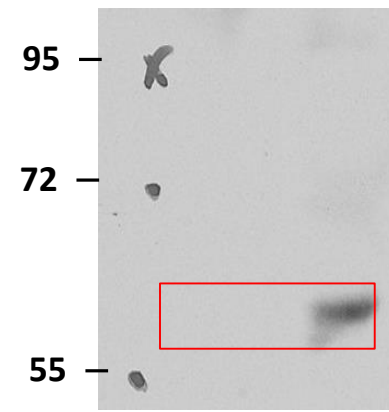
Brg1



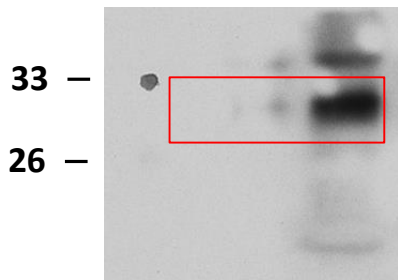
E-cadherin



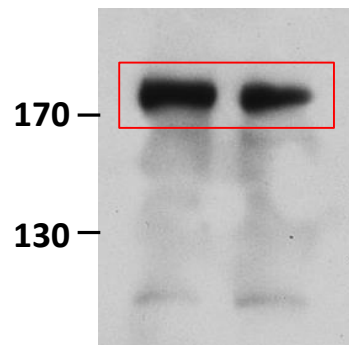
Vimentin



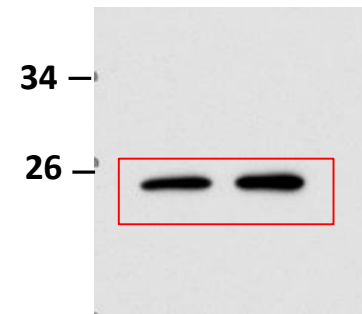
Snail



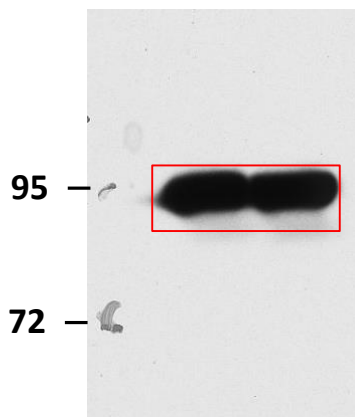
ZEB-1



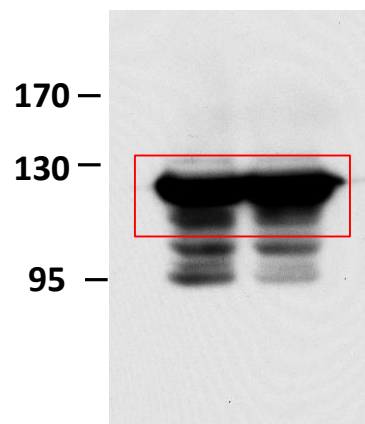
Twist1



$\beta$ -catenin

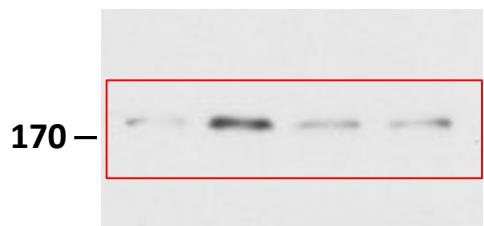


Vinculin

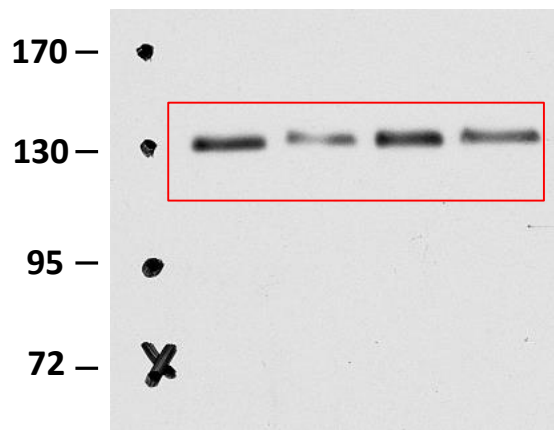


Uncropped blots related to Figure S11b

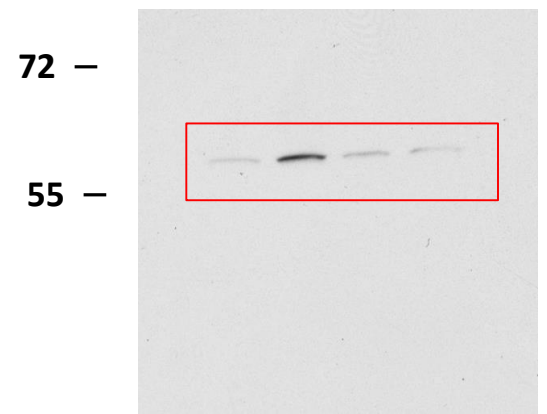
Brg1



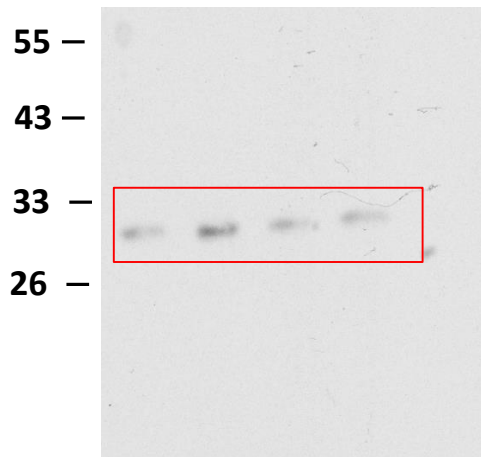
E-cadherin



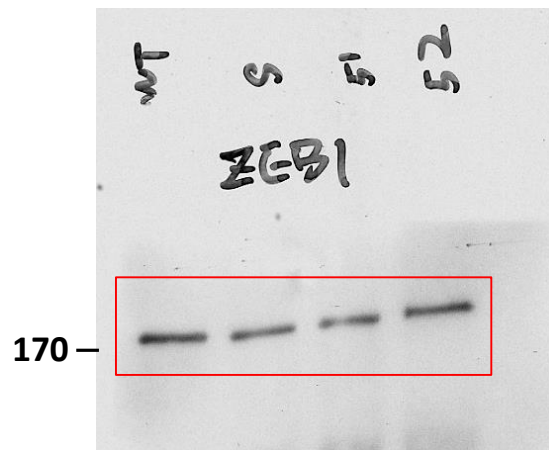
Vimentin



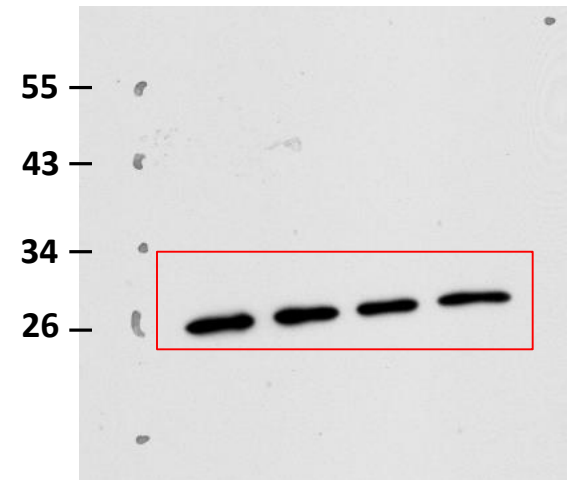
Snail



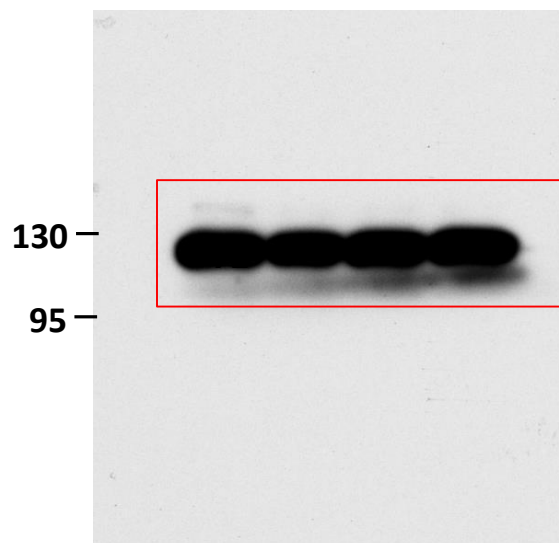
ZEB-1



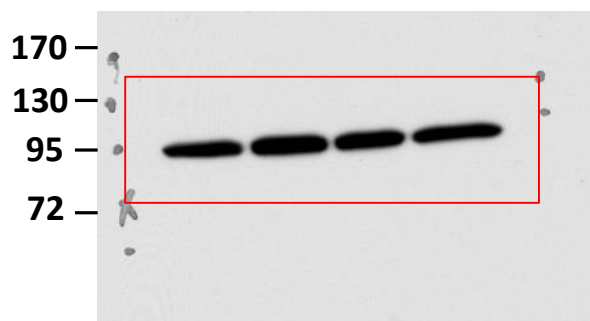
TWIST-1



Vinculin

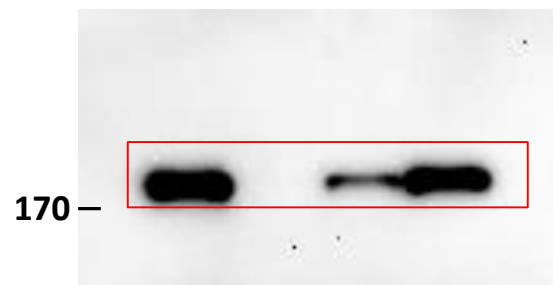


$\beta$ -catenin

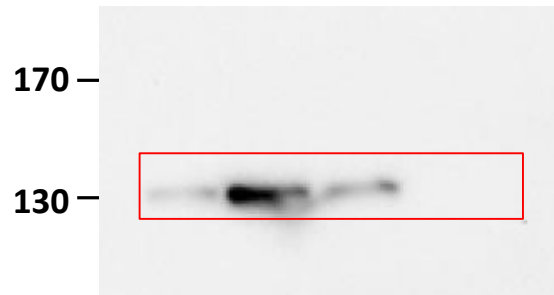


Uncropped blots related to Figure S11c

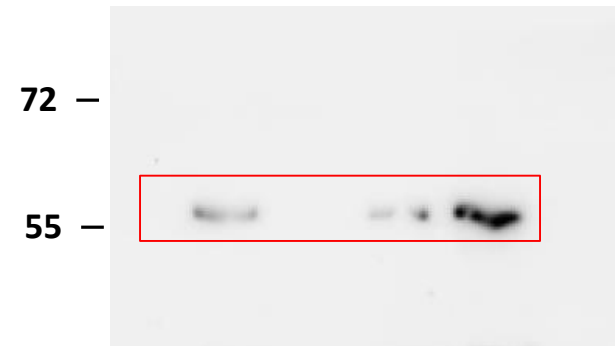
Brg1



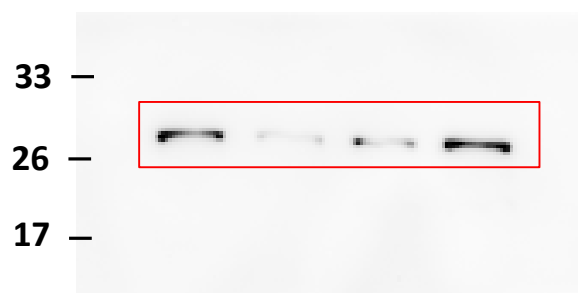
E-cadherin



Vimentin



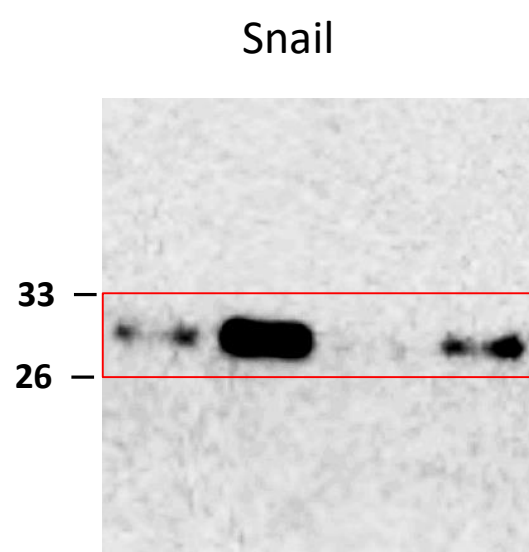
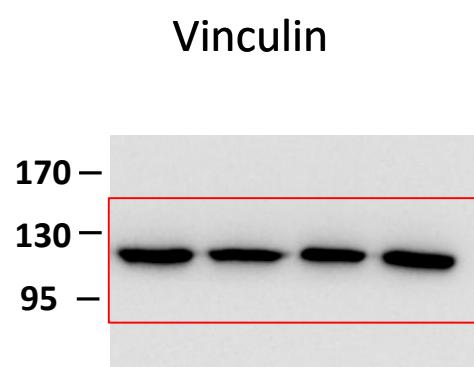
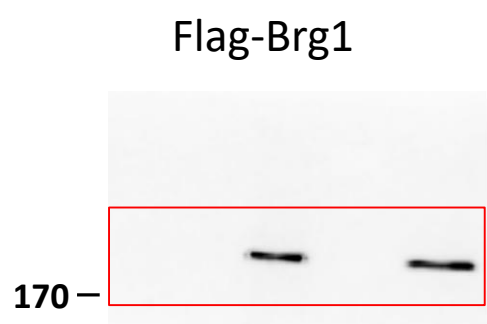
Snail



Vinculin



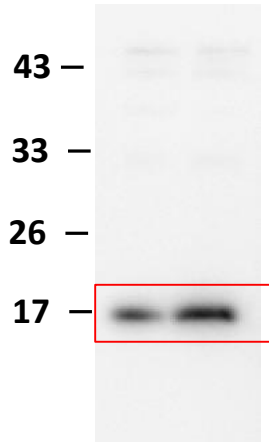
Uncropped blots related to Figure S12a



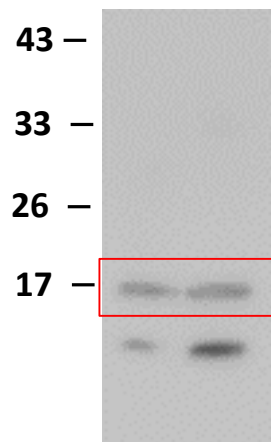


Uncropped blots related to Figure S13c

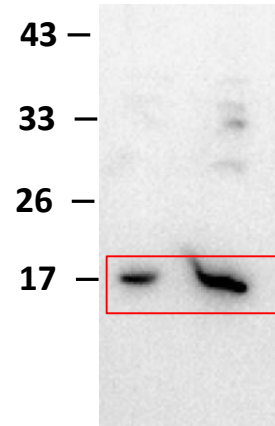
H3K4Me3



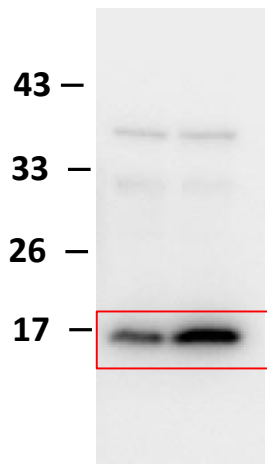
H3K9Me3



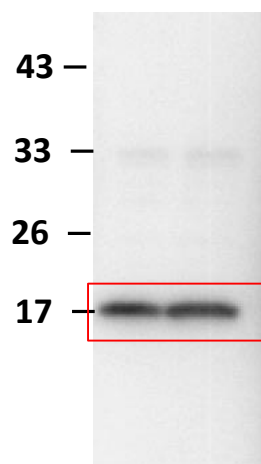
H3K27Me3



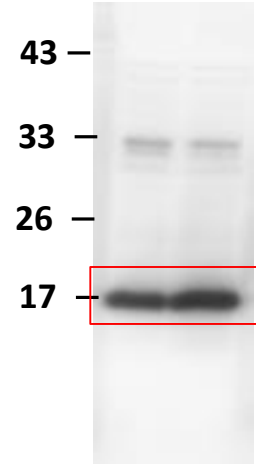
H3K36Me3



H3K27Ac



H3



Vinculin

