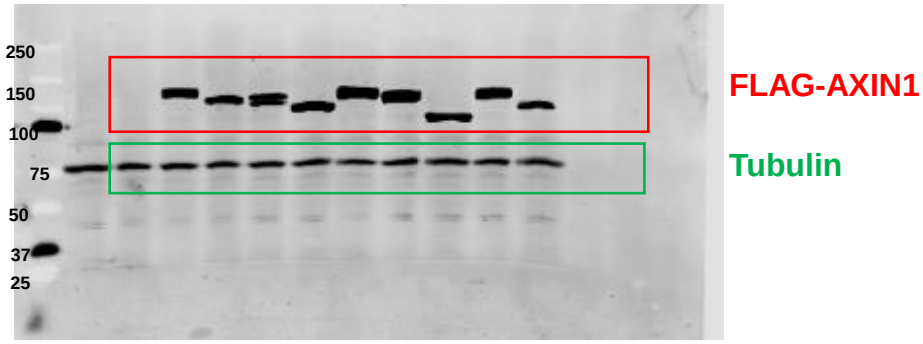
Supplemental Data 1: Original western blot images

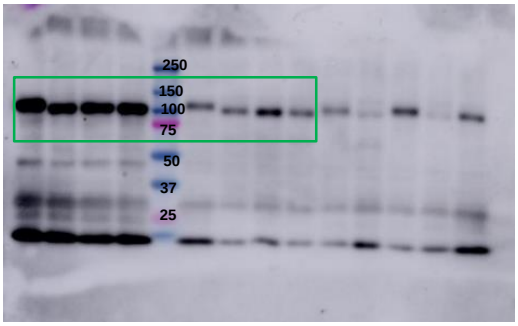
Fig. 1B



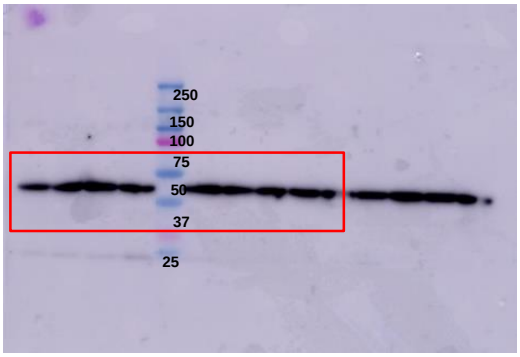
Lane	loading	
1	Marker	
2	No	
3	Ev	
4	WT	
5	Tankyrase	Deleted domain
6	APC/RGS 81-212del	
7	MEKK1	
8	GSK3β	
9	β-catenin	
10	CK1	
11	PP2Ac	
12	DVL/DIX	

Fig. 2A

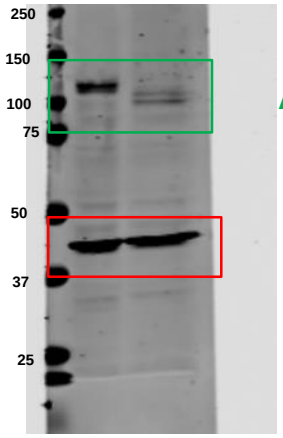
AXIN1-Nter



β-Actin



Lane	loading	
1	WT	HEK293T
2	koEX5-cl,33	
3	koEX-cl,36	
4	koEX-cl,43	
5	Marker	
6	WT	SNU449 AXIN1-repaired
7	koEX5-cl.08	
8	koEX5-cl.09	
9	koEX5-cl.18	

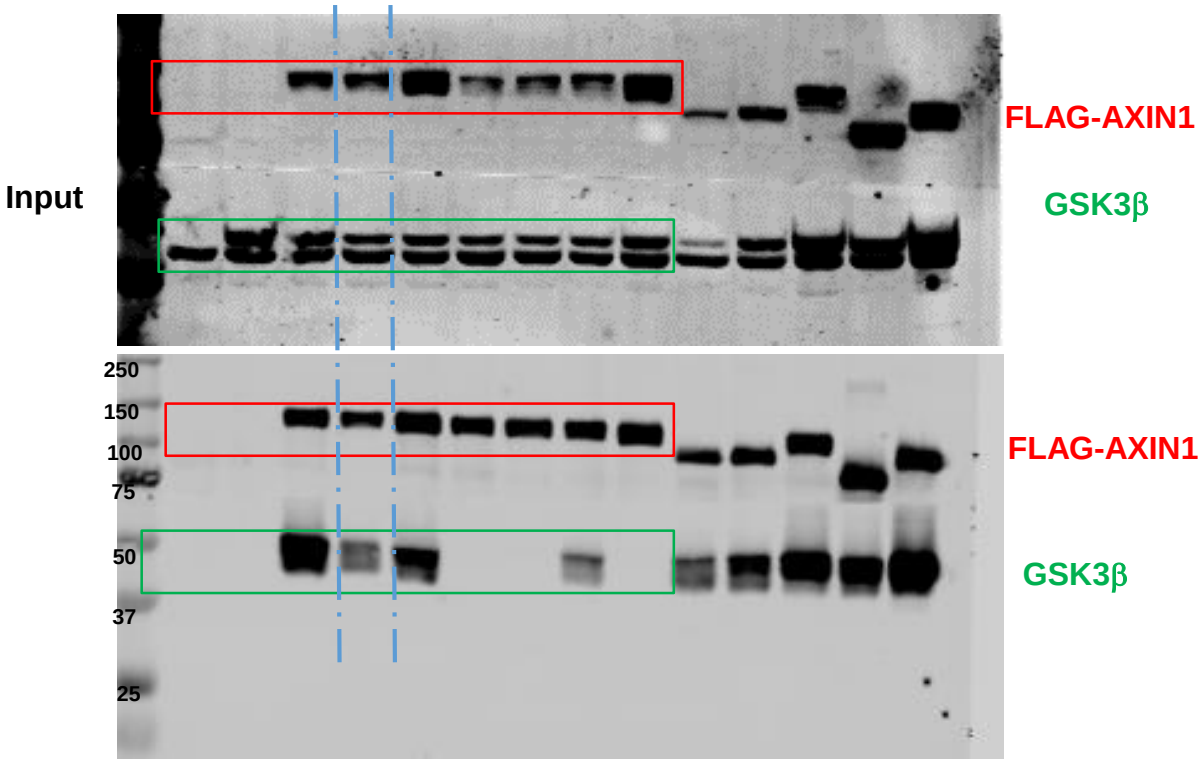


Axin1-Nter

β-Actin

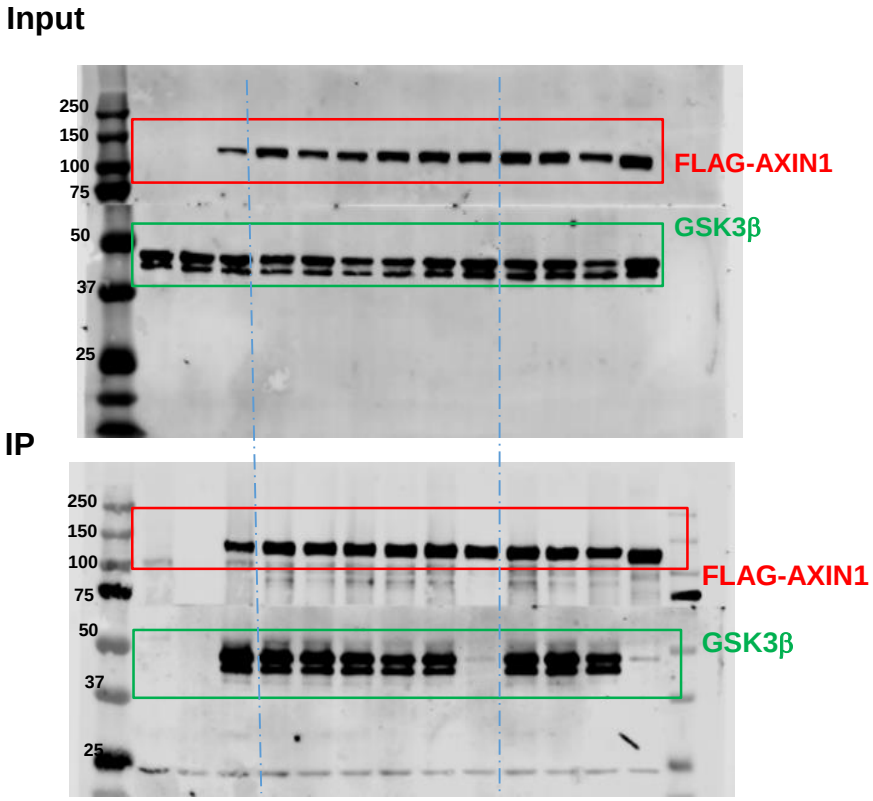
Lane	loading	
1	Marker	
2	WT	HEK293T
3	koEX-cl.D10	

Fig. 3C

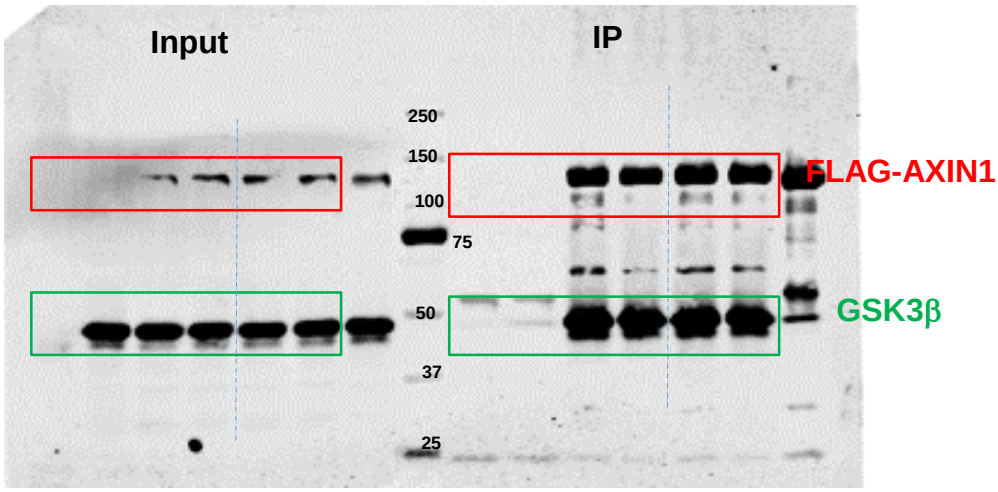


Lane	loading
1	Marker
2	NO
3	EV
4	WT
5	R395C
6	R373_V383del
7	V383_I393del
8	I393_T402del
9	T402_M418del
10	R373_M418del

Fig. 3F

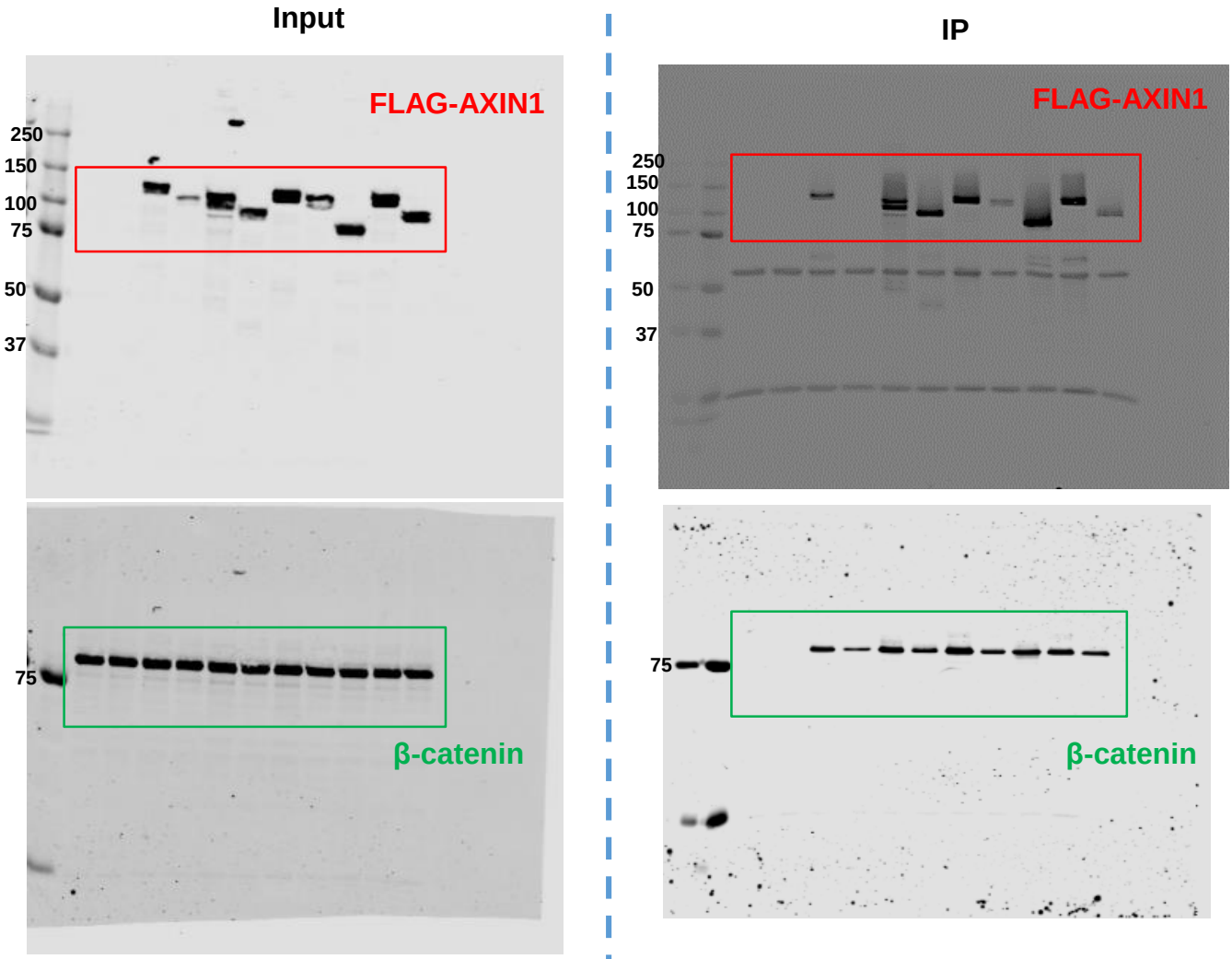


Lane	loading	
1	Marker	
2	NO	transfected HA-GSK3β
3	EV	
4	WT	
5	Q386H	
6	A389V	
7	E391K	
8	H394N	
9	R395H	
10	R395P	
11	R401H	
12	R401C	
13	T402K	
14	R 373_M418del	
15	Marker	



Lane	loading	
1	NO	Transfected HA-GSK3β
2	EV	
3	WT	
4	P385A	
5	R395C	
6	L396M	
7	R373_M418del	
8	Marker	
9	NO	Transfected HA-GSK3β
10	EV	
11	WT	
12	P385A	
13	R395C	
14	L396M	
15	R373_M418del	

Fig. 4E

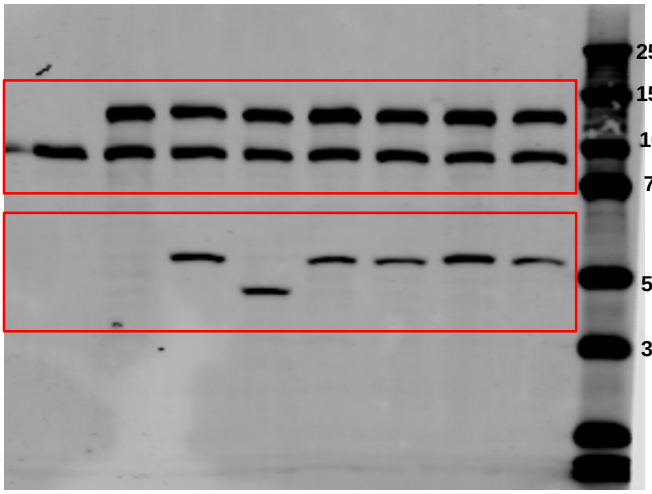


Lane	loading	Input samples
1	Marker	
2	No	
3	Ev	
4	WT	
5	Tankyrase	Deleted domain
6	APC/RGS 81-212del	
7	MEKK1	
8	GSK3β	
9	β-catenin	
10	CK1	
11	PP2Ac	
12	DVL/DIX	

Lane	loading	IP samples
1	Marker	
2	Marker	
3	No	
4	Ev	
5	WT	
6	Tankyrase	Deleted domain
7	APC/RGS 81-212del	
8	MEKK1	
9	GSK3β	
10	β-catenin	
11	CK1	
12	PP2Ac	
13	DVL/DIX	

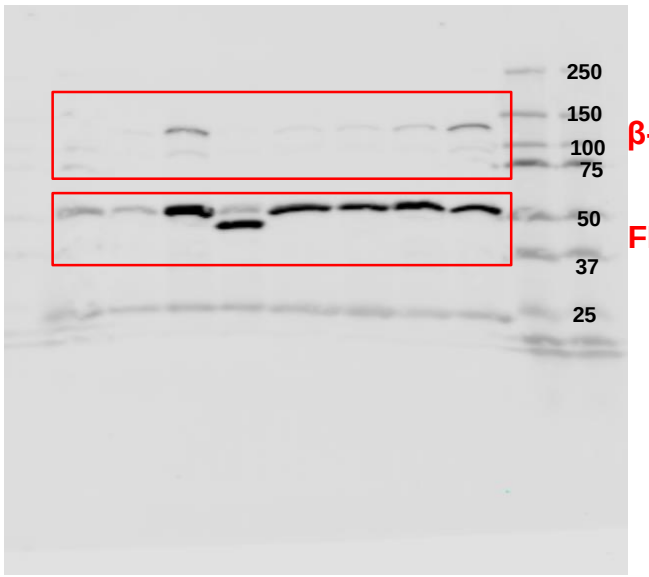
Fig. 4F

Input



Lane	loading
1	No
2	Ev
3	M1_G430del
4	M1_P503del
5	M1_G430del-D461N
6	M1_G430del-N466Y
7	M1_G430del-V478G
8	M1_G430del-P482H
9	Marker

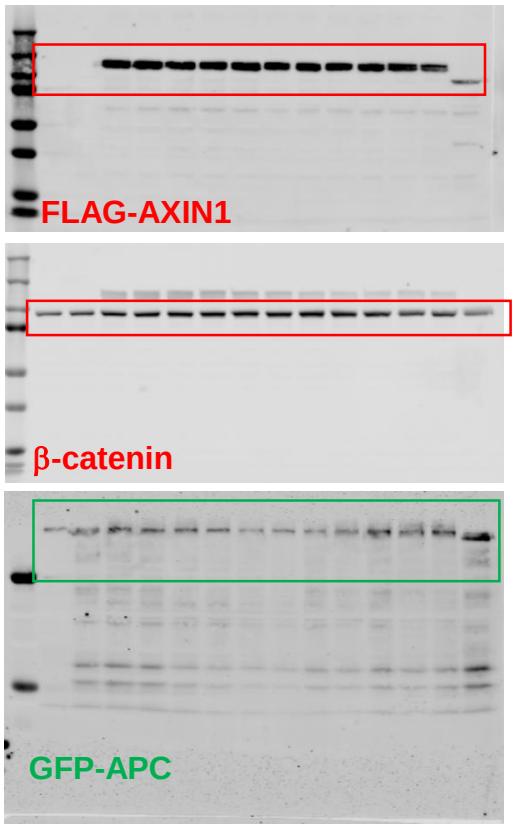
IP

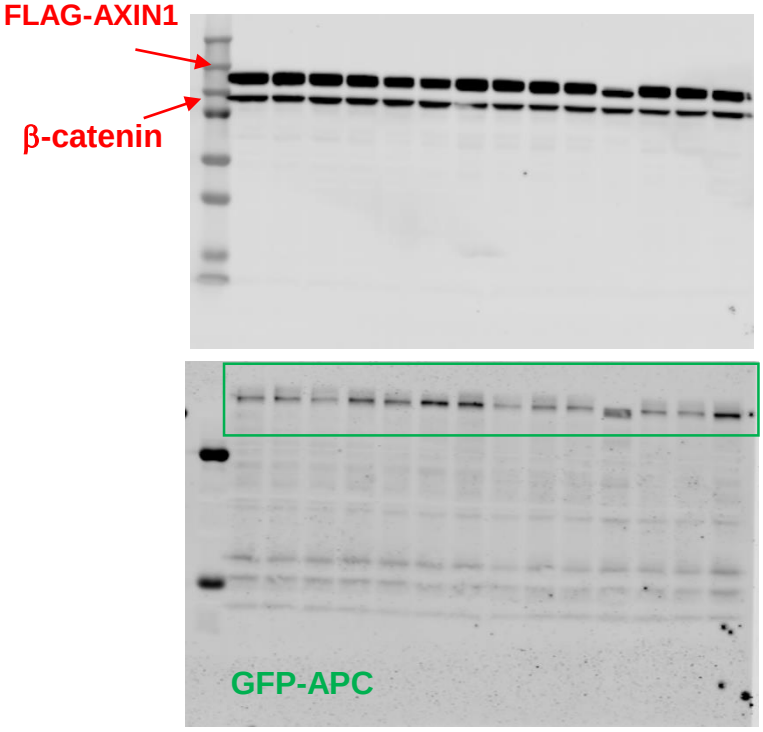


Lane	loading
1	No
2	Ev
3	M1_G430del
4	M1_P503del
5	M1_G430del-D461N
6	M1_G430del-N466Y
7	M1_G430del-V478G
8	M1_G430del-P482H
9	Marker
10	Marker

Fig. 5B

Page 1 Input membrane



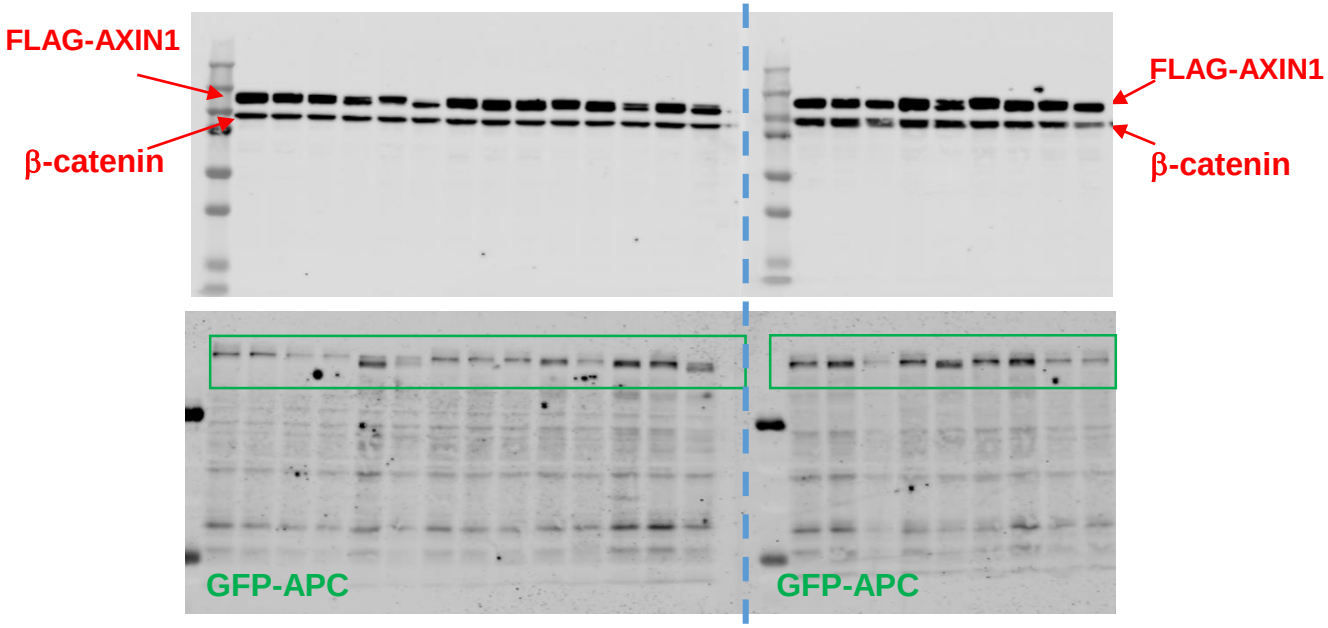


Lane	10% Loading
1	Marker
2	NO
3	EV
4	WT
5	G69E
6	G69V
7	P72T
8	E73K
9	E73Q
10	G74S
11	A76T
12	A76V
13	S77F
14	P78S
15	65_228del

Lane	10% Loading
1	Marker
2	p.S88P
3	p.H90Y
4	p.S91F
5	p.D94N
6	p.G98R
7	p.G98E
8	p.S100N
9	p.L101P
10	p.R103M
11	T104N
12	L106R
13	K107I
14	Q108H
15	E109D

Fig. 5B

Page 2 Input membrane

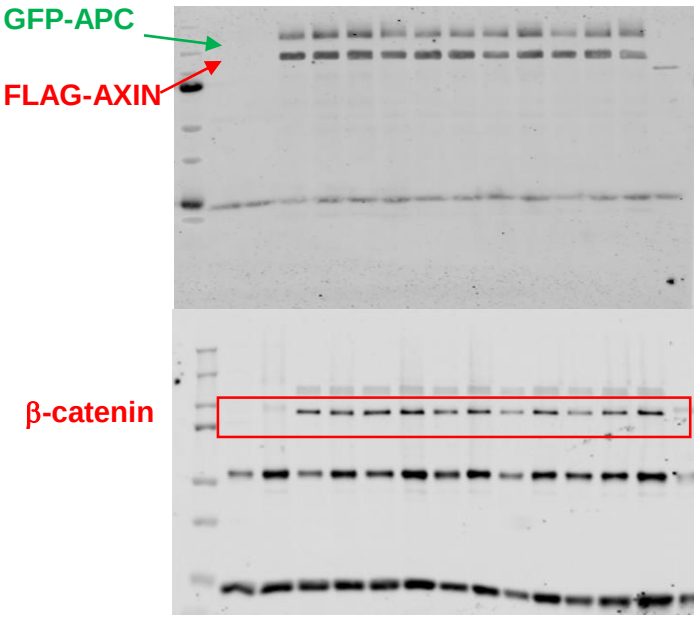


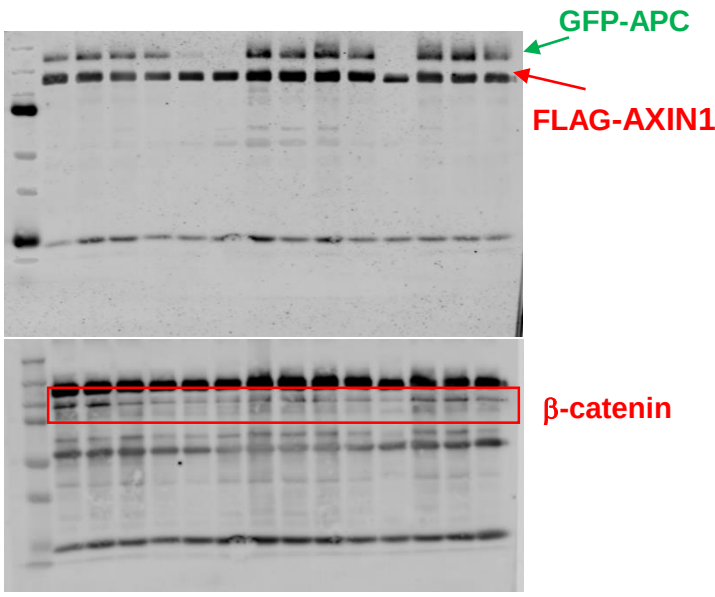
Lane	10% Loading
1	Marker
2	G110A
3	A112T
4	D113N
5	D113Y
6	A120D
7	C121F
8	C121S
9	R125W
10	A141T
11	A143D
12	I149T
13	V156M
14	K161T
15	A185D

Lane	10% Loading
1	Marker
2	A185V
3	A185T
4	E188K
5	L202F
6	L202P
7	LK202/3QN
8	I206M
9	Y207C
10	E209Q

Fig. 5B

Page 3 IP membrane



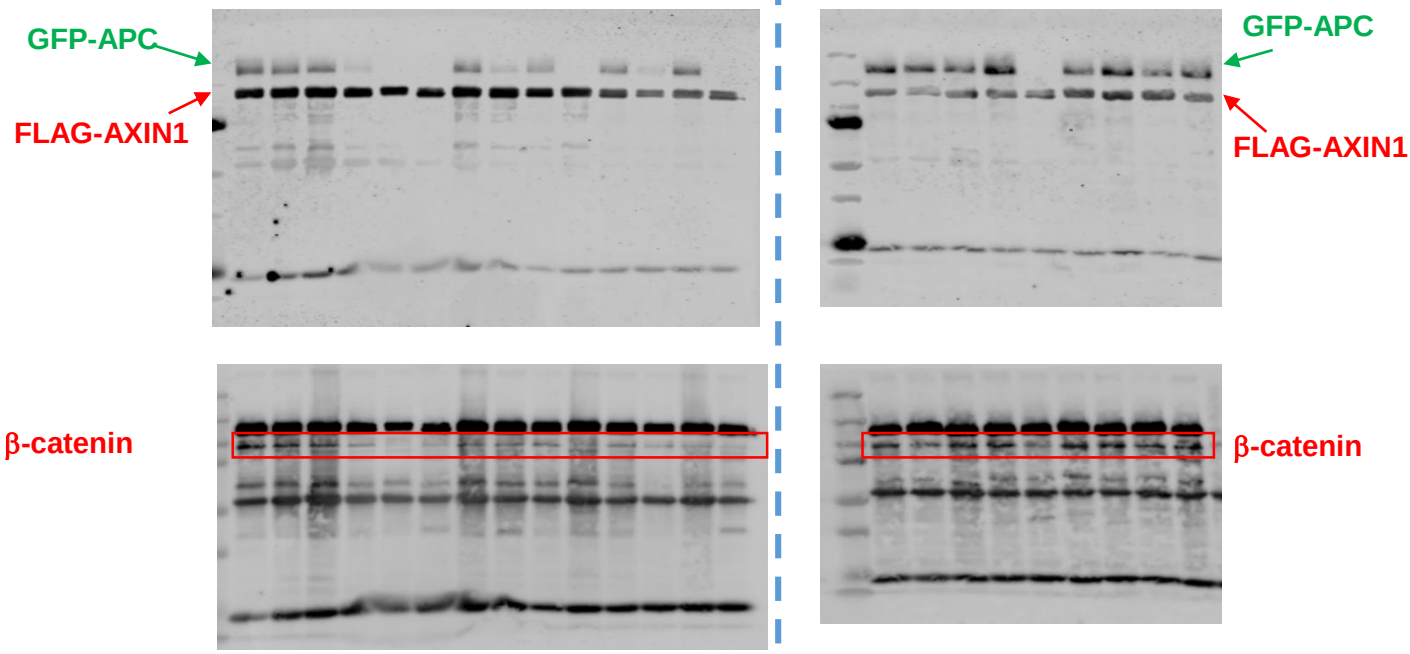


Lane	10% Loading
1	Marker
2	NO
3	EV
4	WT
5	G69E
6	G69V
7	P72T
8	E73K
9	E73Q
10	G74S
11	A76T
12	A76V
13	S77F
14	P78S
15	65_228del

Lane	10% Loading
1	Marker
2	p.S88P
3	p.H90Y
4	p.S91F
5	p.D94N
6	p.G98R
7	p.G98E
8	p.S100N
9	p.L101P
10	p.R103M
11	T104N
12	L106R
13	K107I
14	Q108H
15	E109D

Fig. 5B

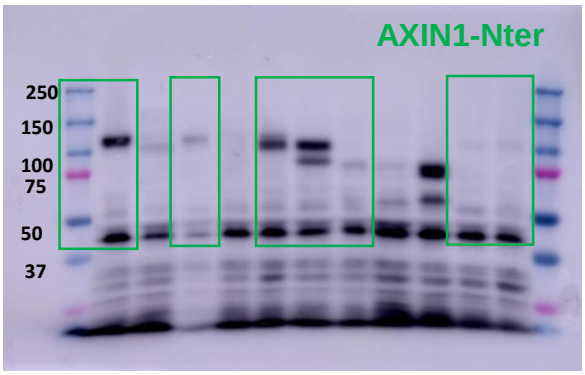
Page 4 IP membrane



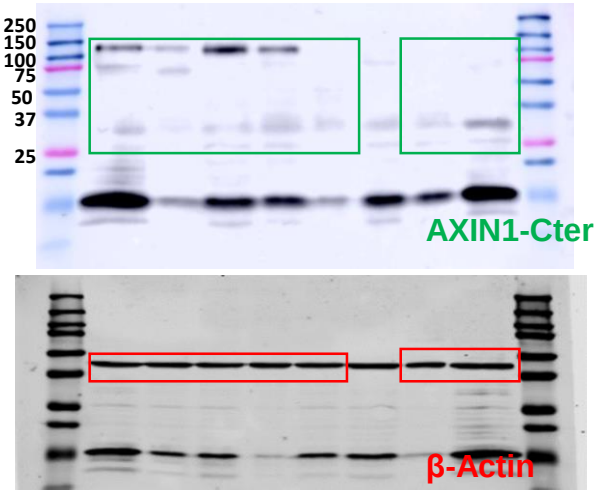
Lane	10% Loading
1	Marker
2	G110A
3	A112T
4	D113N
5	D113Y
6	A120D
7	C121F
8	C121S
9	R125W
10	A141T
11	A143D
12	I149T
13	V156M
14	K161T
15	A185D

Lane	10% Loading
1	Marker
2	A185V
3	A185T
4	E188K
5	L202F
6	L202P
7	LK202/3QN
8	I206M
9	Y207C
10	E209Q

Fig. 7B



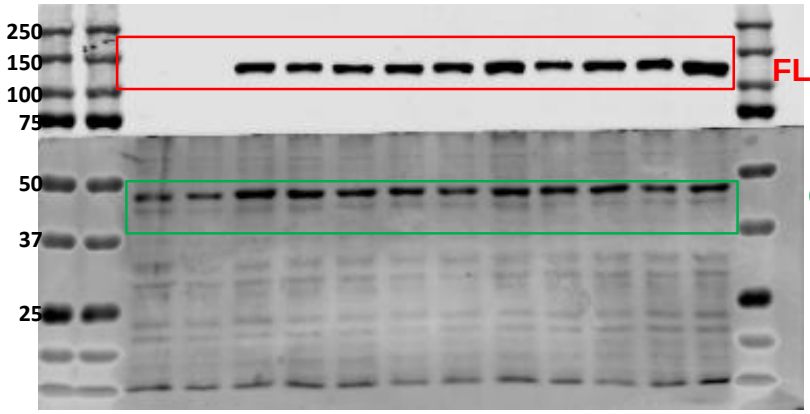
Lane	loading
1	Marker
2	**WT**
3	R839fs*17
4	**R841fs*10-b6**
5	R841fs*20-a5
6	**R723fs*21-e8**
7	**R723fs*40-b9**
8	**L506Tfs*83-e5**
9	L506Tfs*83-e10
10	K501Tfs*83-C11
11	**R395Afs*17-a5**
12	**R395Afs*17-a11**
13	Marker



Lane	loading
1	Marker
2	**WT**
3	**R841fs*10-b6**
4	**R723fs*21-e8**
5	**R723fs*40-b9**
6	**L506Tfs*83-e5**
7	L506Tfs*83-e10
8	**R395Afs*17-a5**
9	**R395Afs*17-a11**
10	Marker

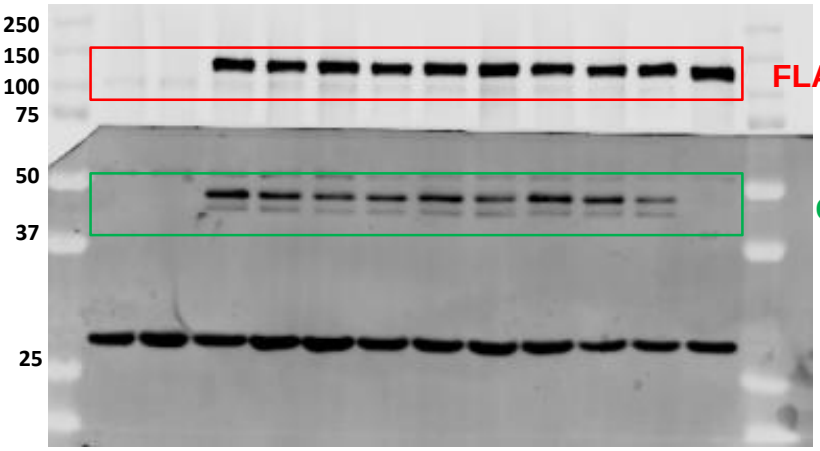
Supplementary Fig.6B

Input



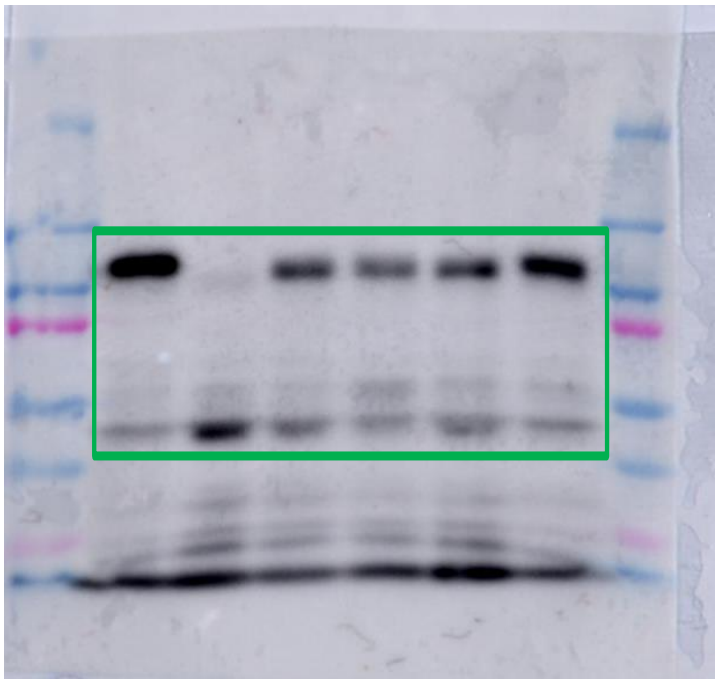
Lane	loading
1	Marker
2	Marker
3	No
4	Ev
5	WT
6	P385A
7	L396M
8	R403W
9	L409M
10	R412Q
11	L413R
12	L413M
13	R417H
14	R373_M418del
15	Marker

IP



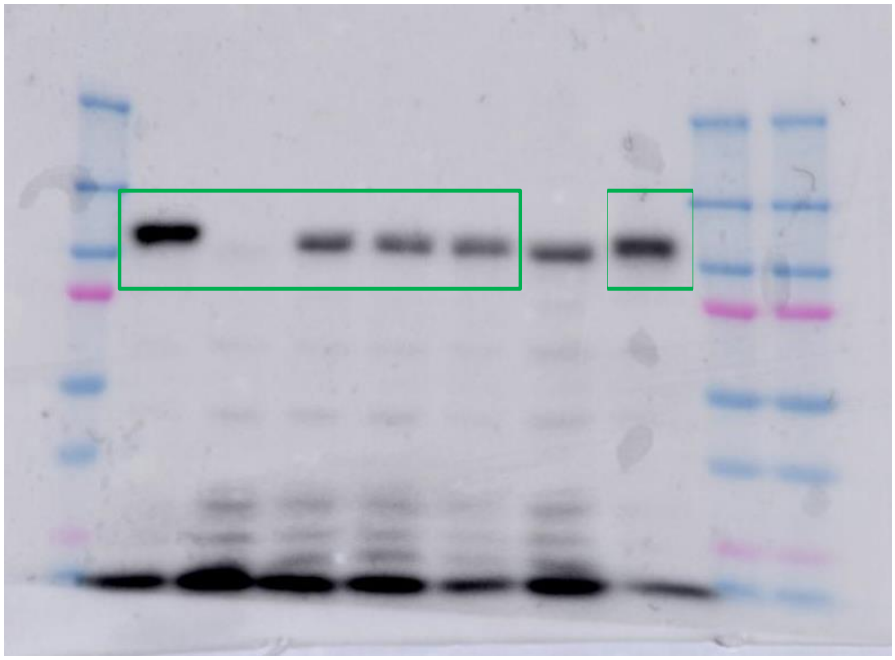
Lane	loading
1	Marker
2	No
3	Ev
4	WT
5	P385A
6	L396M
7	R403W
8	L409M
9	R412Q
10	L413R
11	L413M
12	R417H
13	R373_M418del
14	Marker
15	

Supplementary Fig.7a



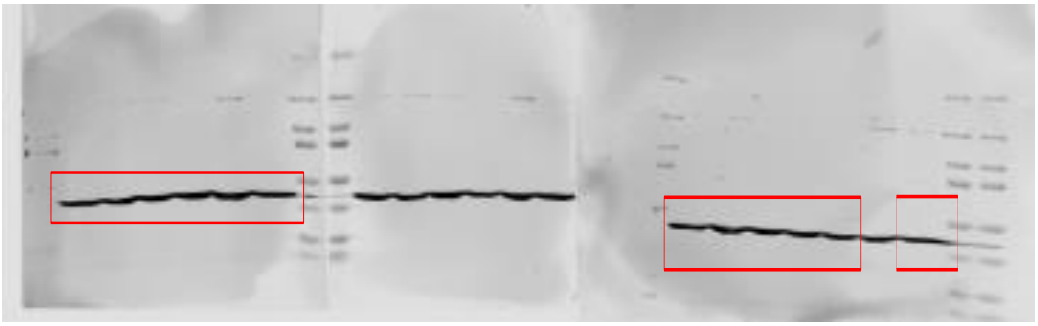
WT
R395Afs*17-a5
R395P-CL.4
R395P-CL.41
R395P-cl.48
R395H-CL.17

AXIN1-NTER



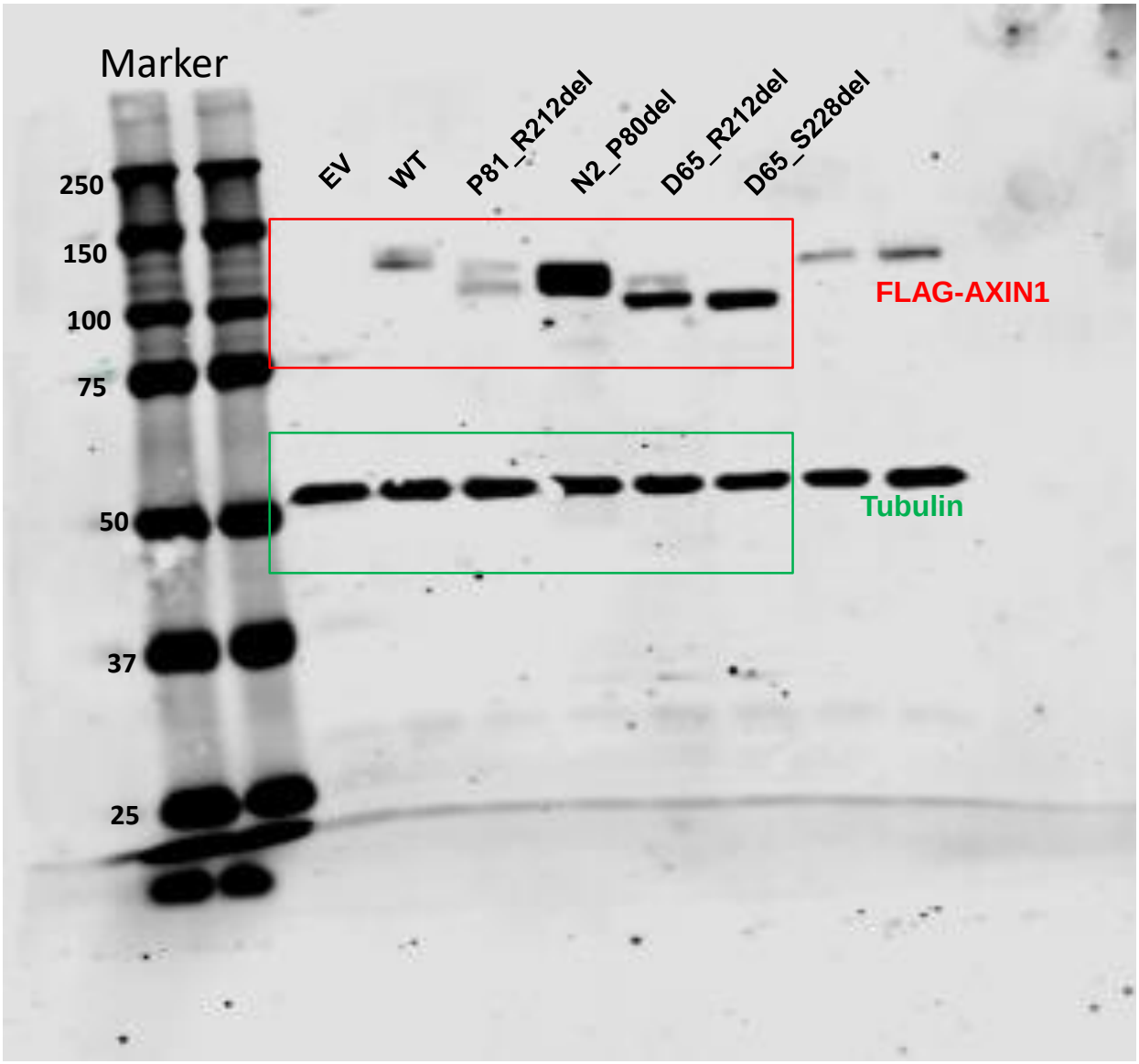
WT
R395Afs*17-a5
R395P-CL.4
R395P-CL.41
R395P-cl.48
KO-33
R395H-CL.17

AXIN1-CTER

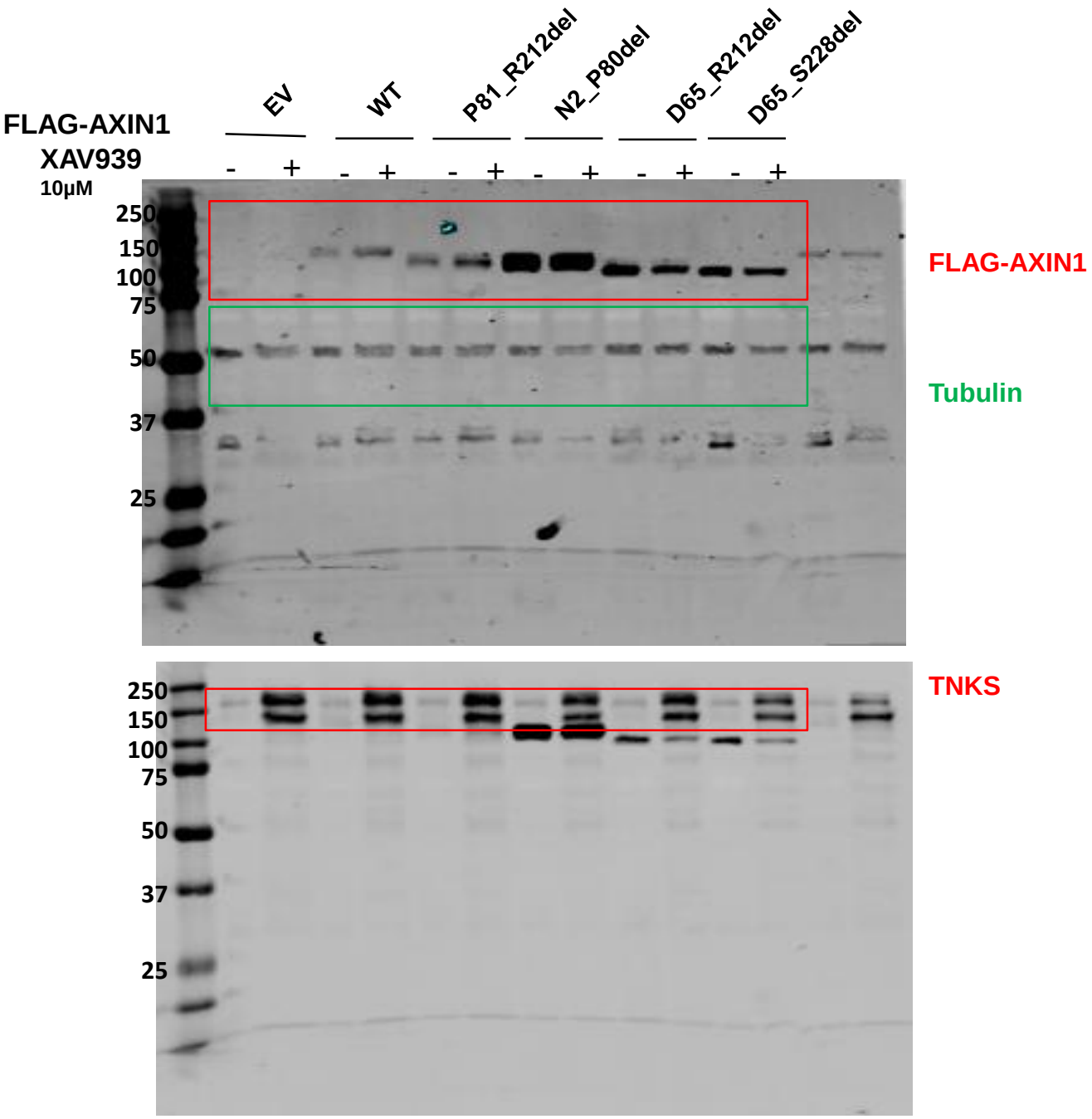


β-Actin

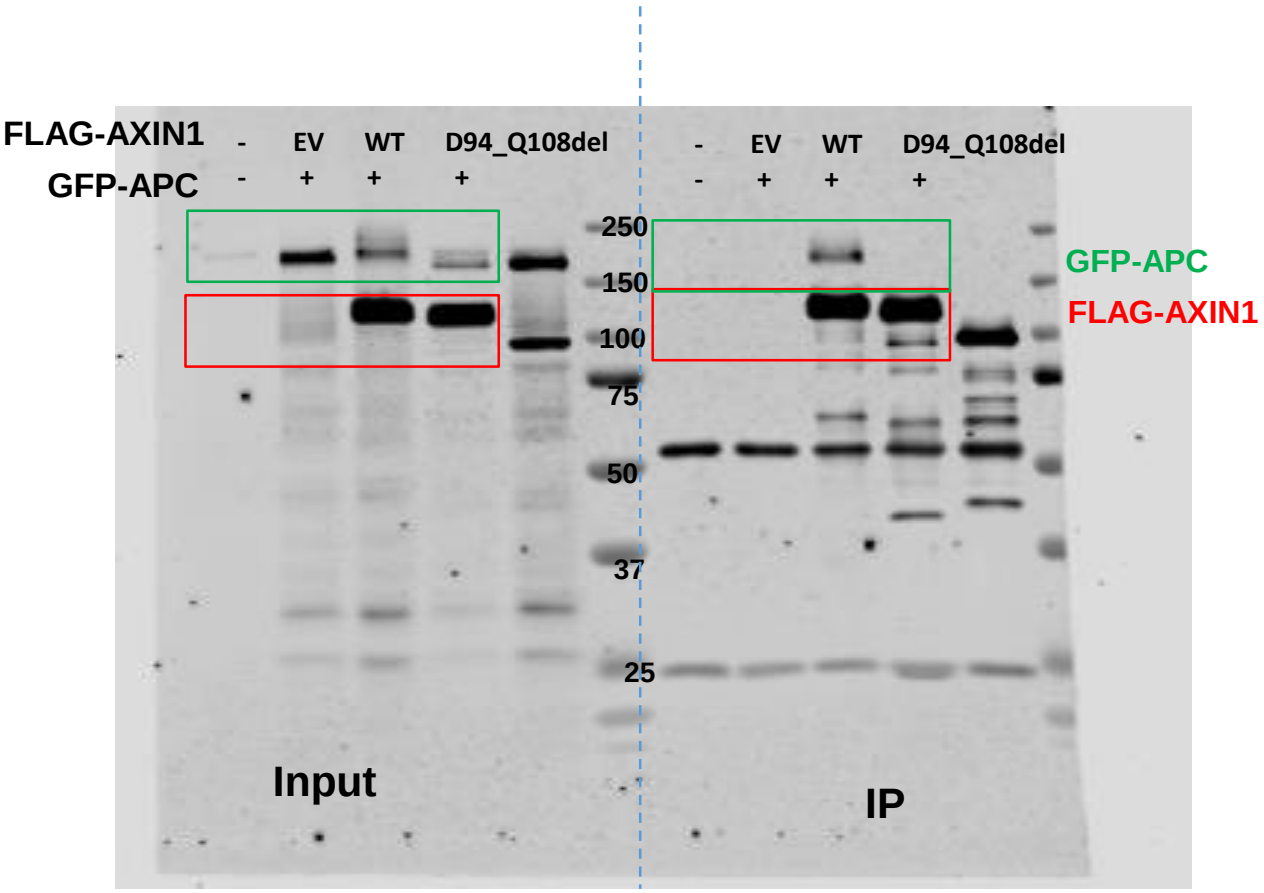
Supplementary Fig.9A



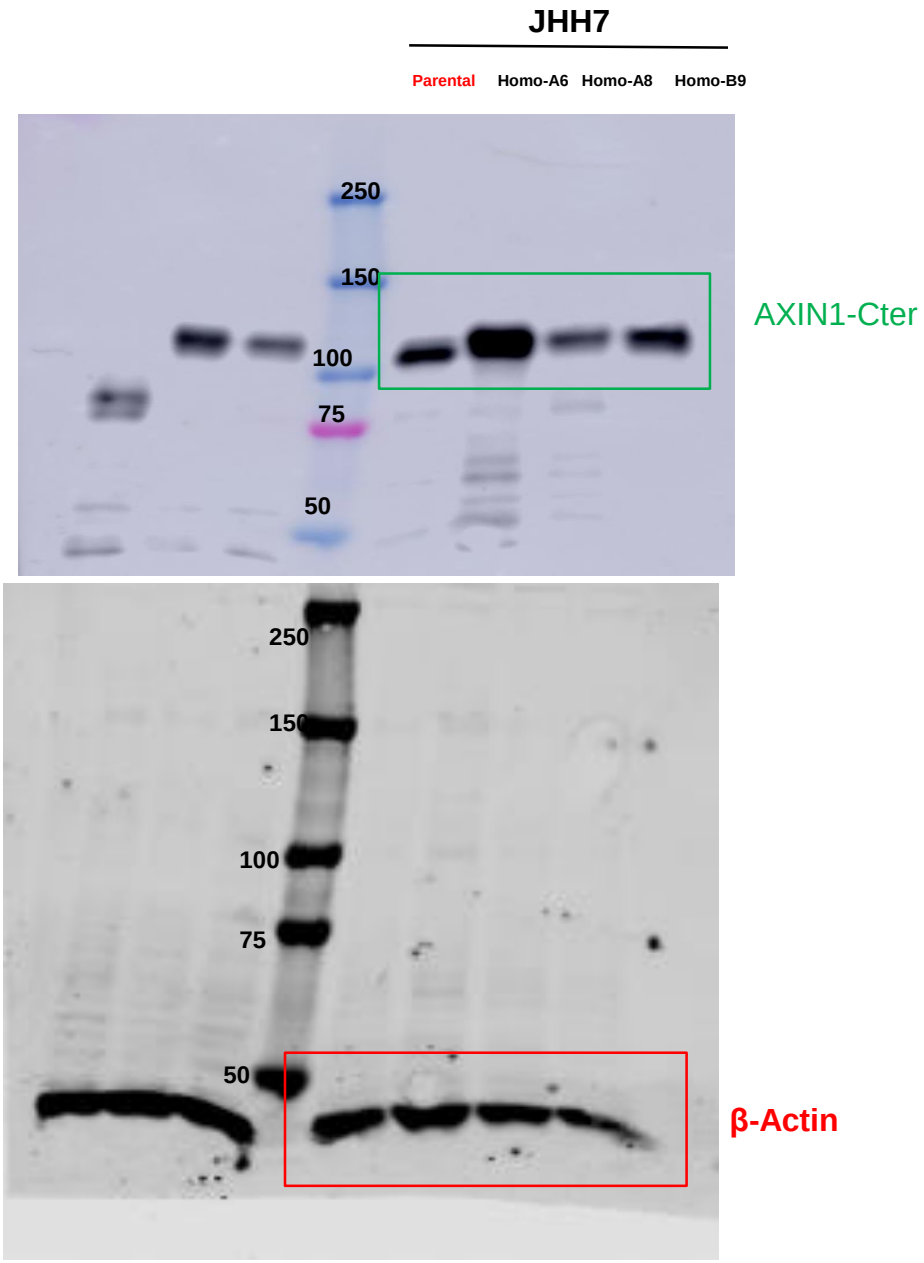
Supplementary Fig.9B



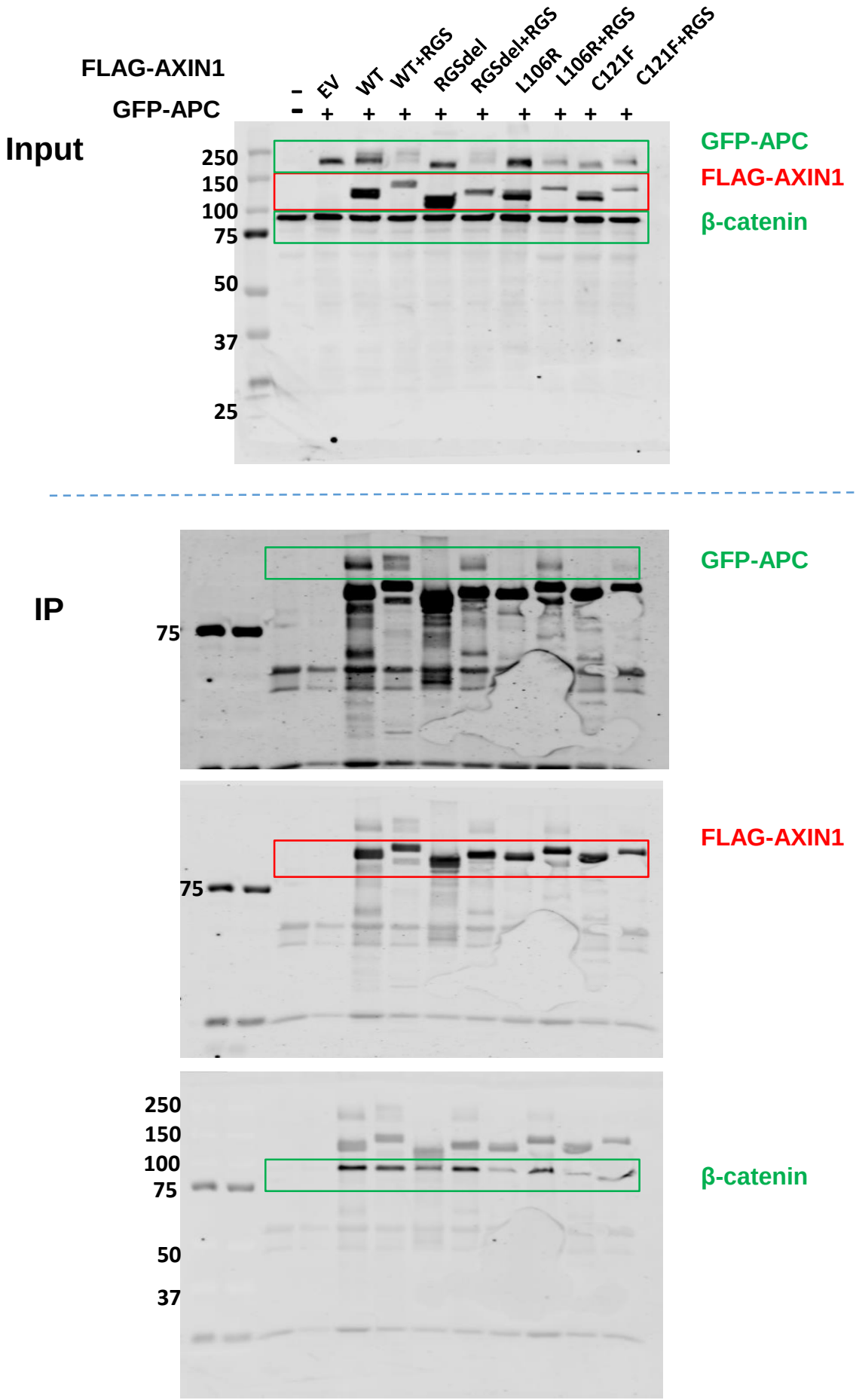
Supplementary Fig.10B



Supplementary Fig.10C



Supplementary Fig.12B



Supplementary Fig.12C