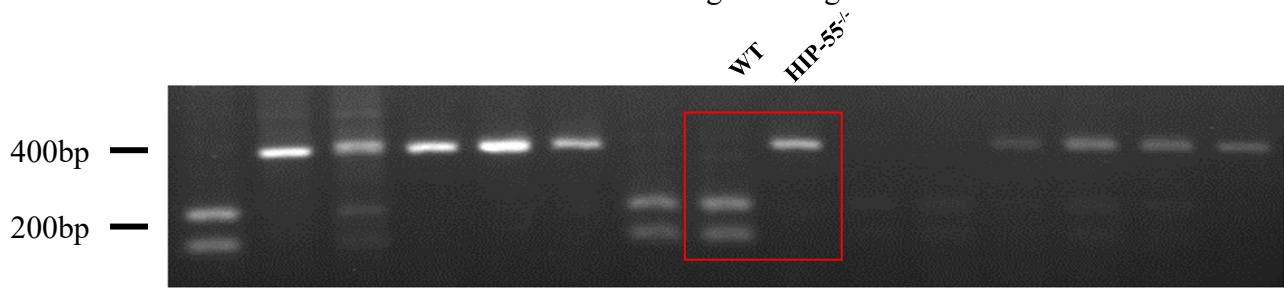
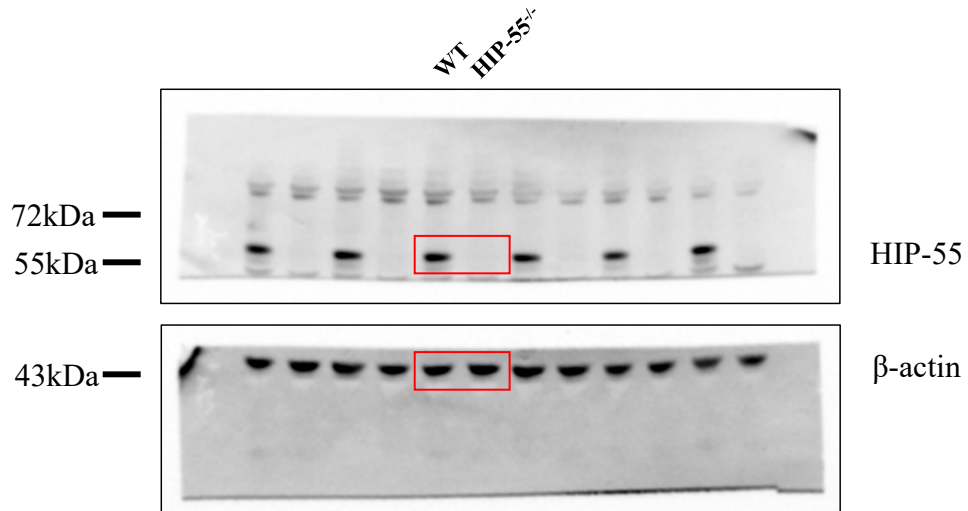


### Full unedited gel

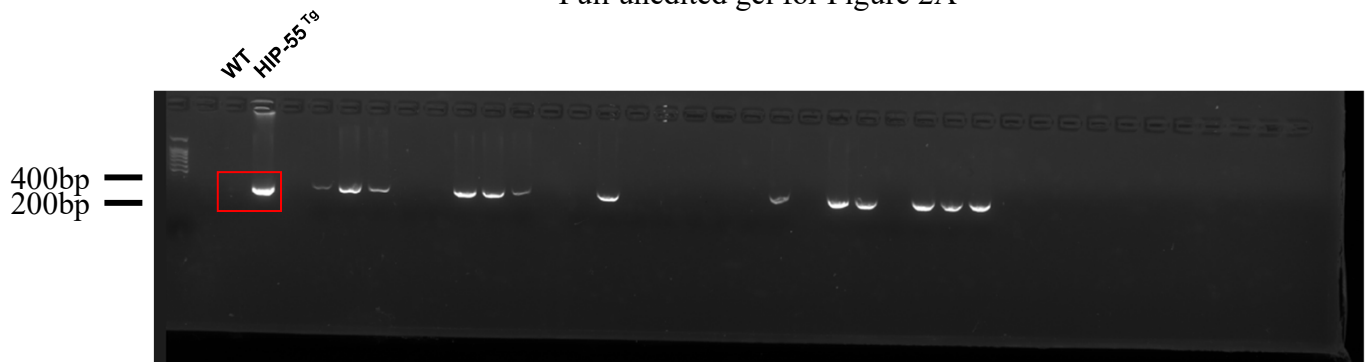
Full unedited gel for Figure 1A



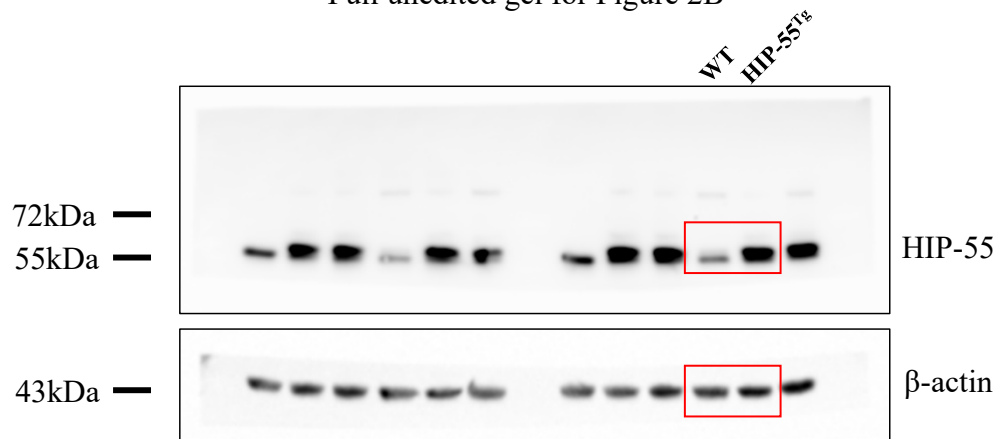
Full unedited gel for Figure 1B



Full unedited gel for Figure 2A

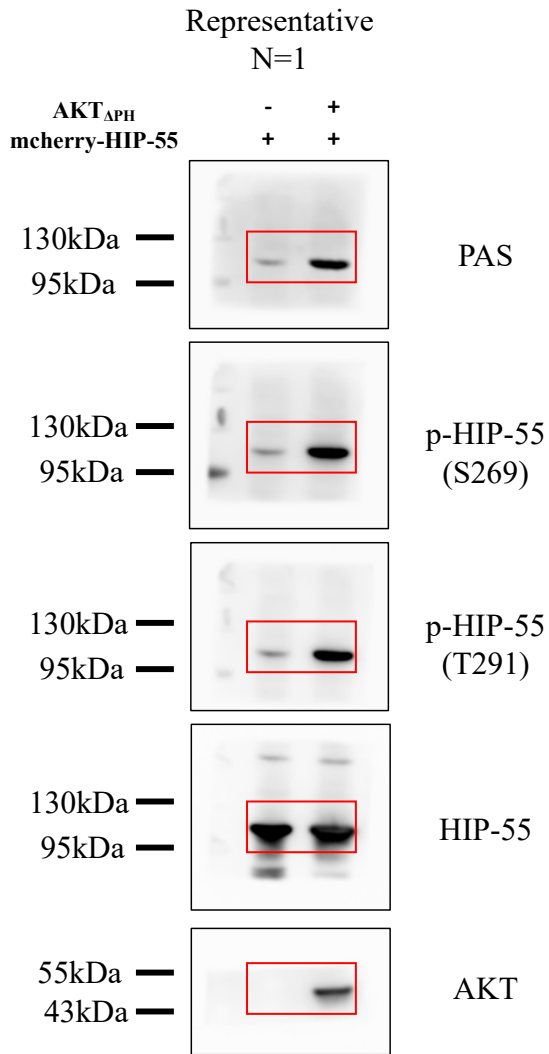


Full unedited gel for Figure 2B

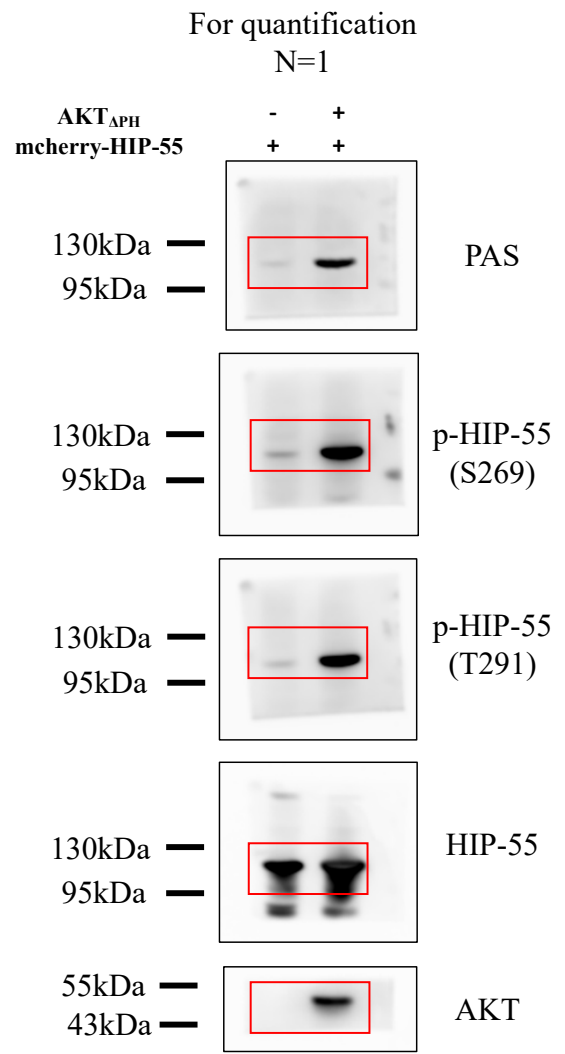


# Full unedited gel

Full unedited gel for Figure 5A

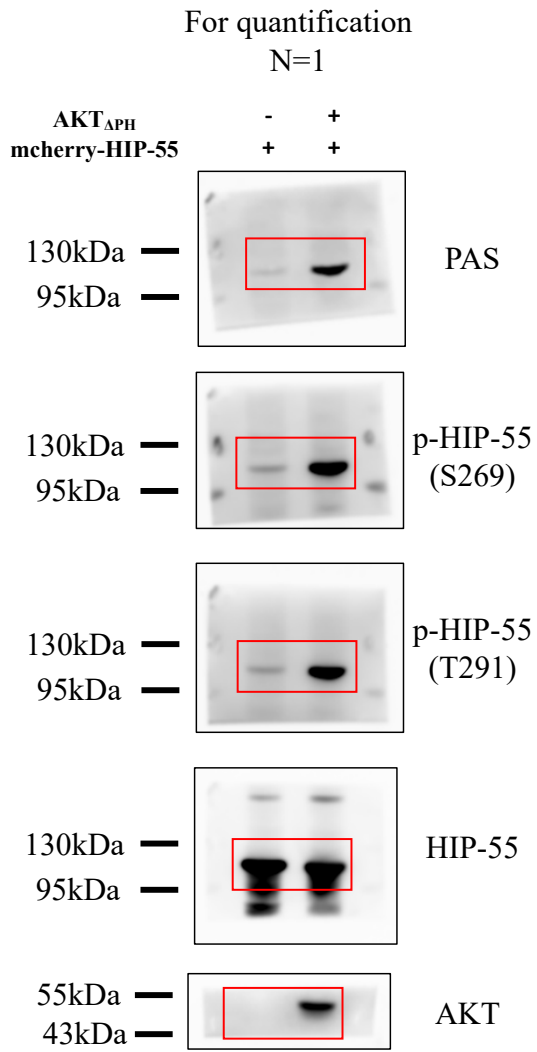


Full unedited gel for Figure 5A

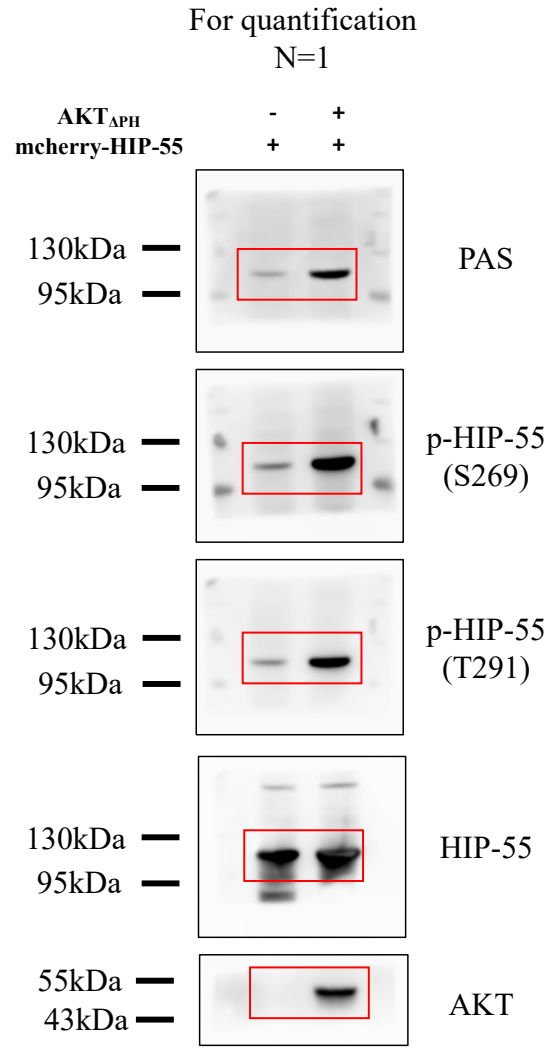


# Full unedited gel

Full unedited gel for Figure 5A



Full unedited gel for Figure 5A

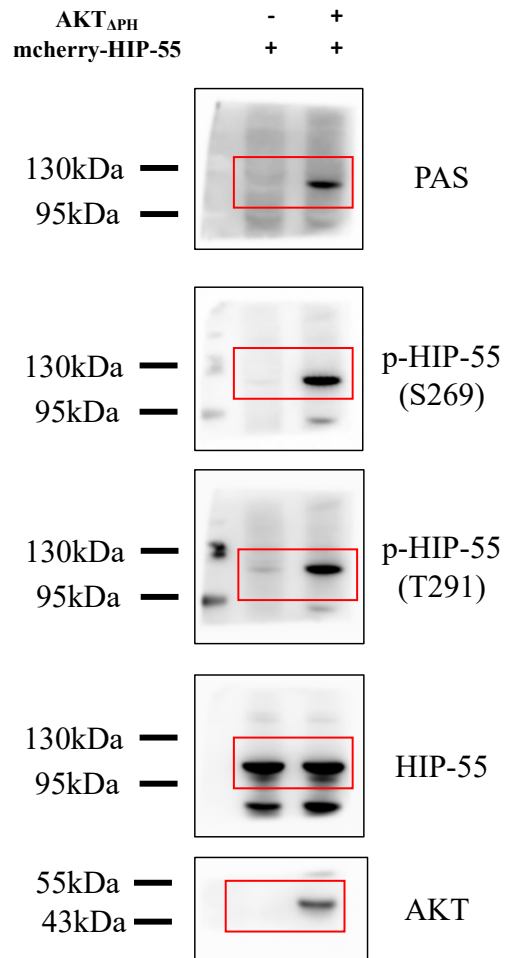


# Full unedited gel

Full unedited gel for Figure 5A

For quantification

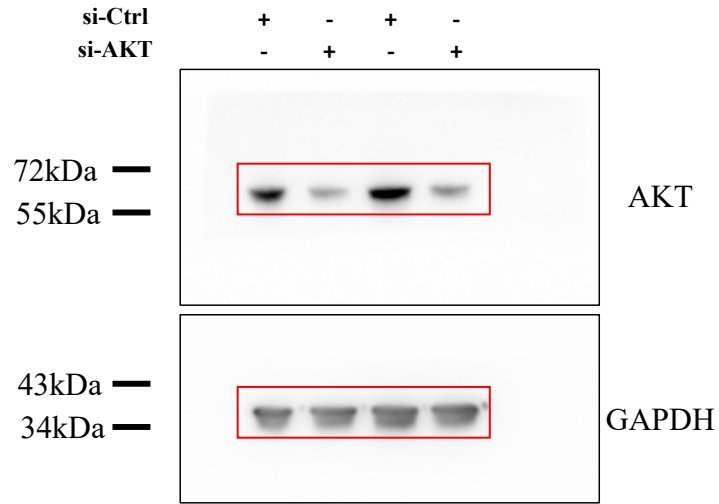
N=1



# Full unedited gel

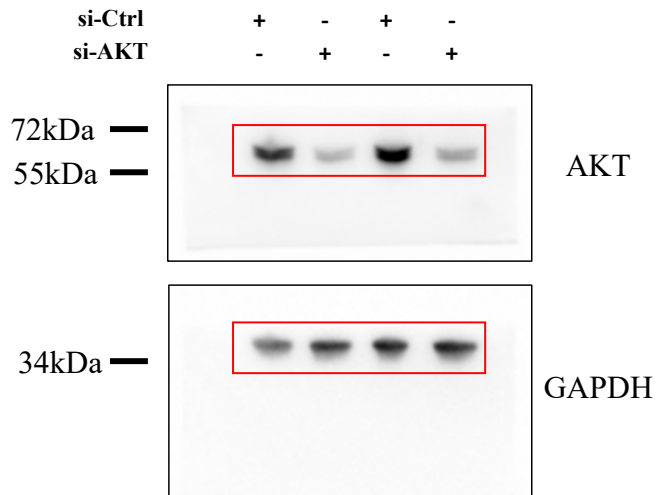
Full unedited gel for Figure 5C

Representative  
N=2



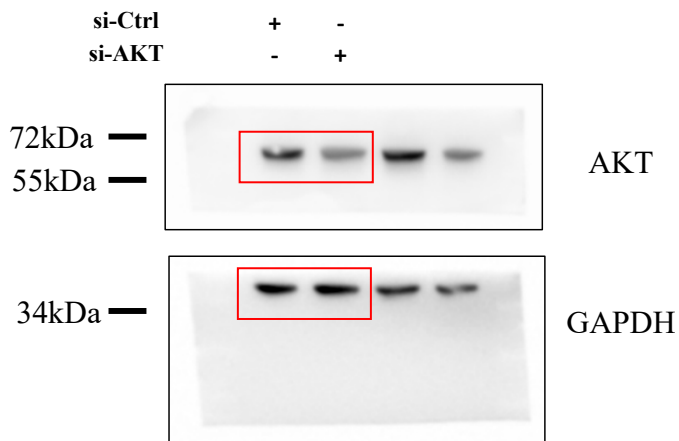
Full unedited gel for Figure 5C

For quantification  
N=2



Full unedited gel for Figure 5C

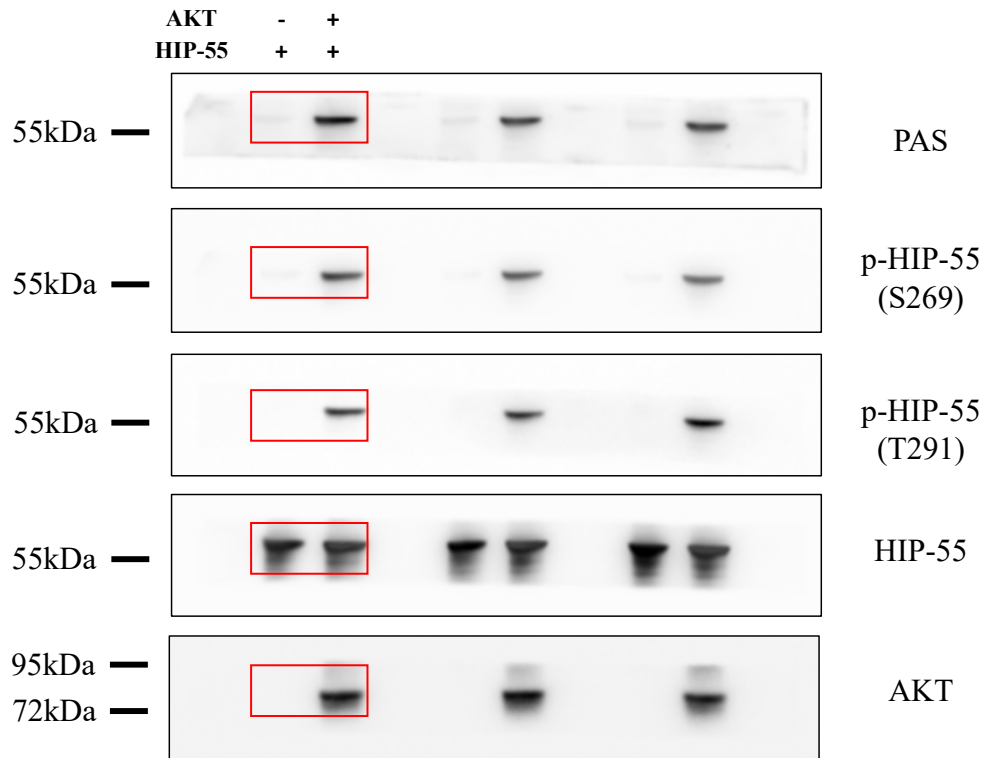
For quantification  
N=1



### Full unedited gel

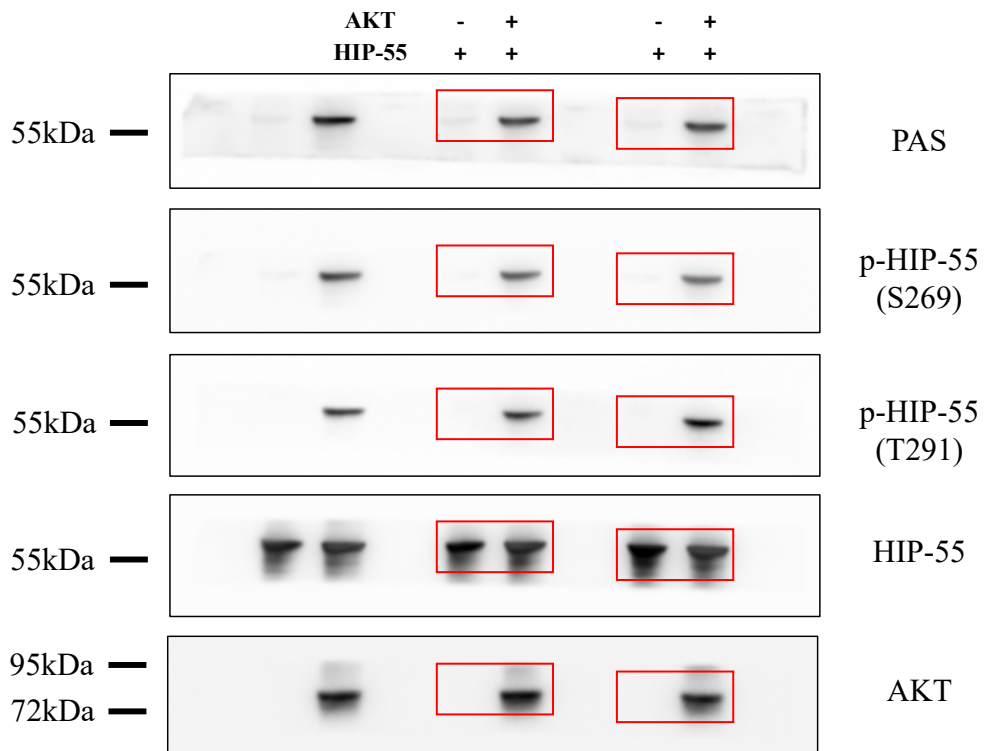
Full unedited gel for Figure 5F

Representative  
N=1



Full unedited gel for Figure 5F

For quantification  
N=2

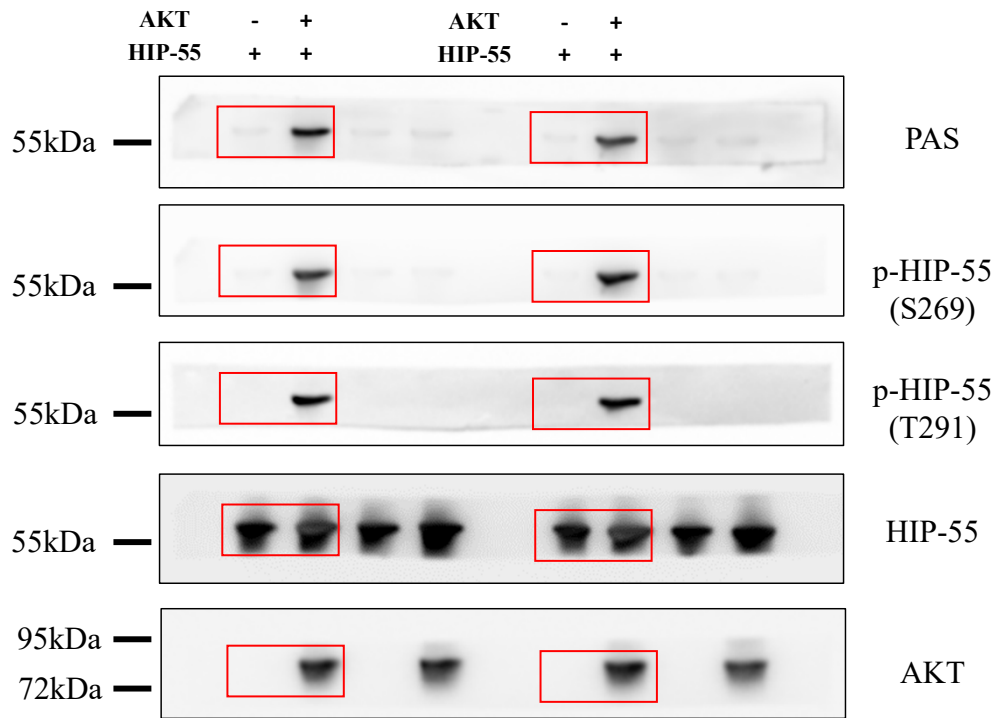


# Full unedited gel

Full unedited gel for Figure 5F

For quantification

N=2

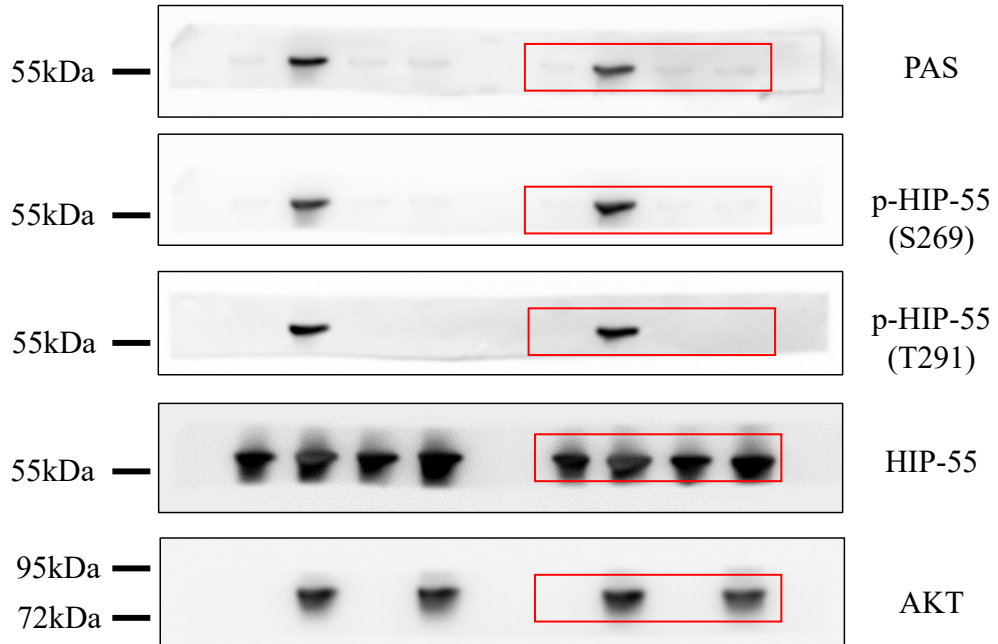


## Full unedited gel

Full unedited gel for Figure 5I

Representative  
N=1

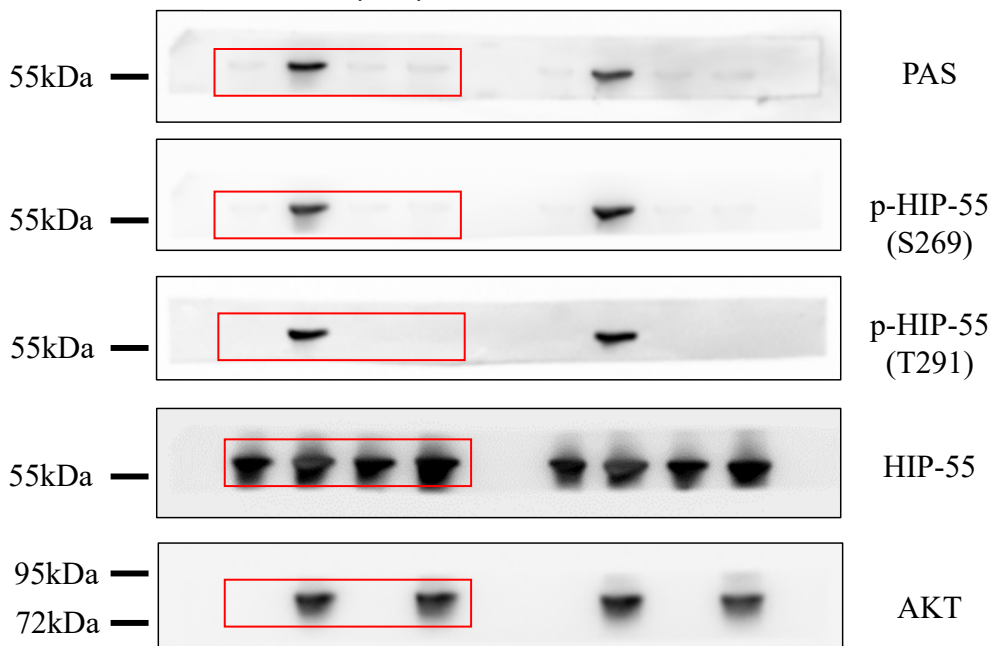
AKT	-	+	-	+
HIP-55 WT	+	+	-	-
HIP-55 AA	-	-	+	+



Full unedited gel for Figure 5I

For quantification  
N=1

AKT	-	+	-	+
HIP-55 WT	+	+	-	-
HIP-55 AA	-	-	+	+



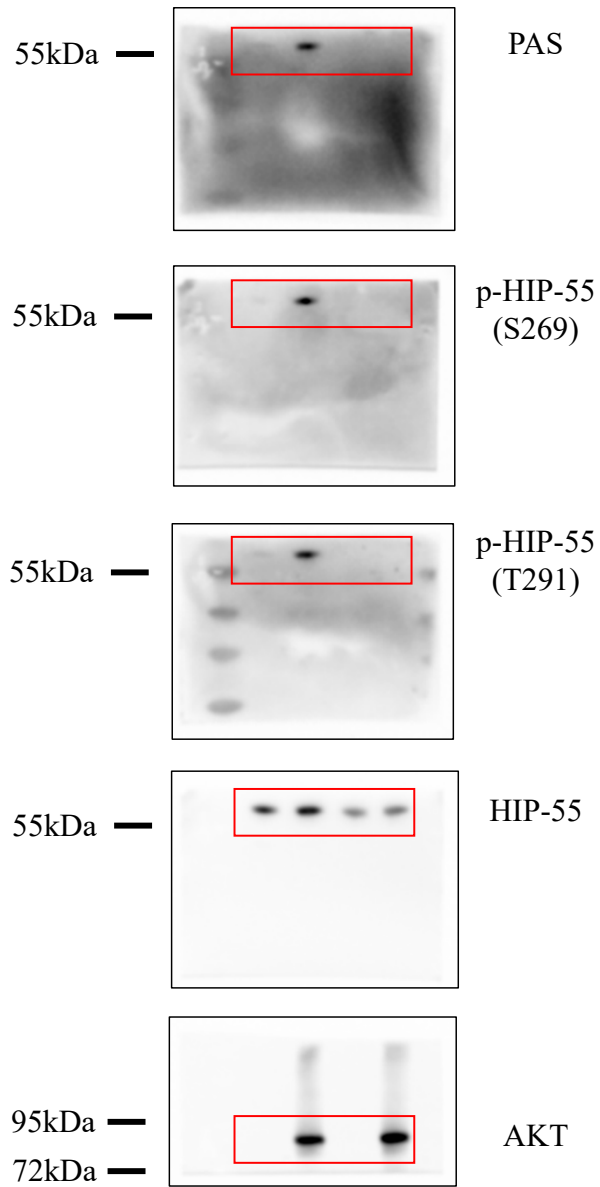


# Full unedited gel

Full unedited gel for Figure 5I

For quantification  
N=1

AKT	-	+	-	+
HIP-55 WT	+	+	-	-
HIP-55 AA	-	-	+	+

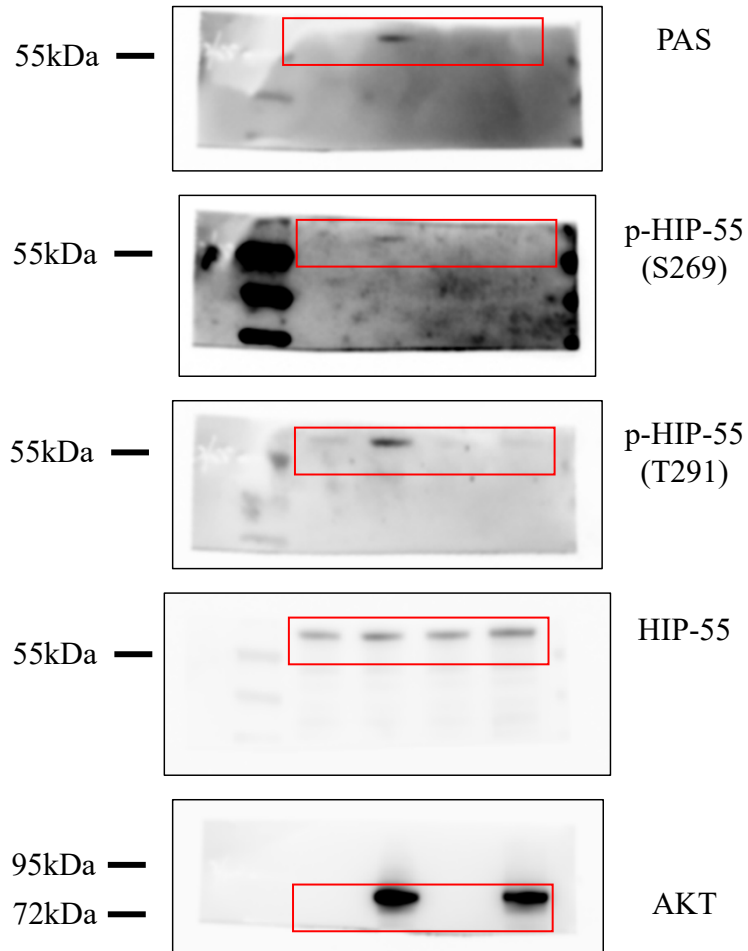


# Full unedited gel

Full unedited gel for Figure 5I

For quantification  
N=1

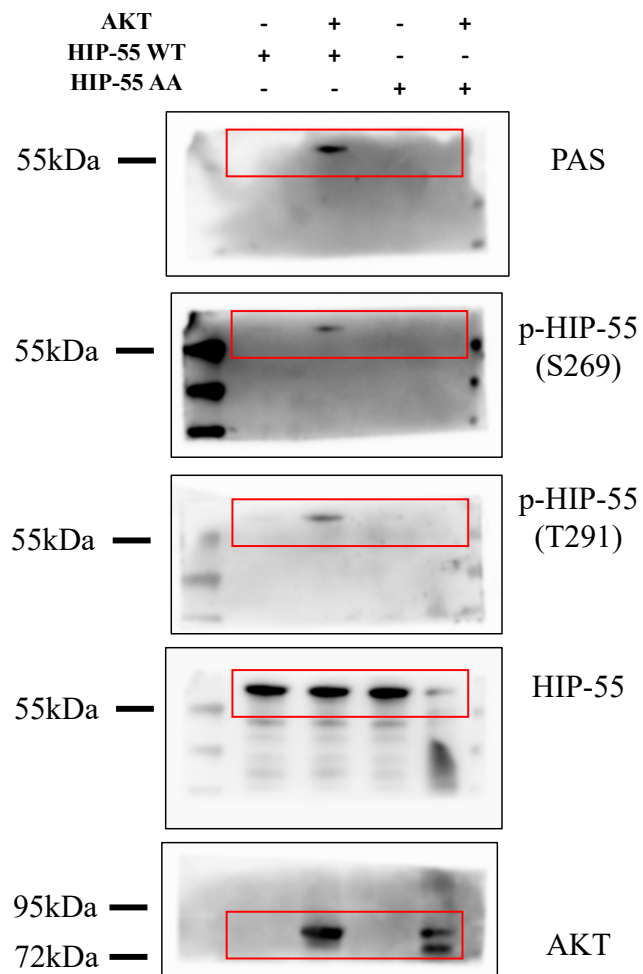
AKT	-	+	-	+
HIP-55 WT	+	+	-	-
HIP-55 AA	-	-	+	+



# Full unedited gel

Full unedited gel for Figure 5I

For quantification  
N=1



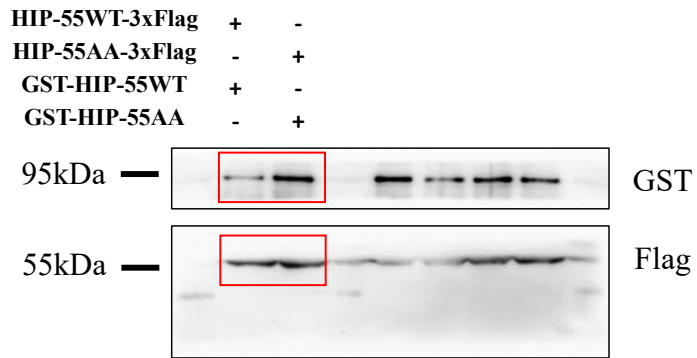
# Full unedited gel

Full unedited gel for Figure 5K

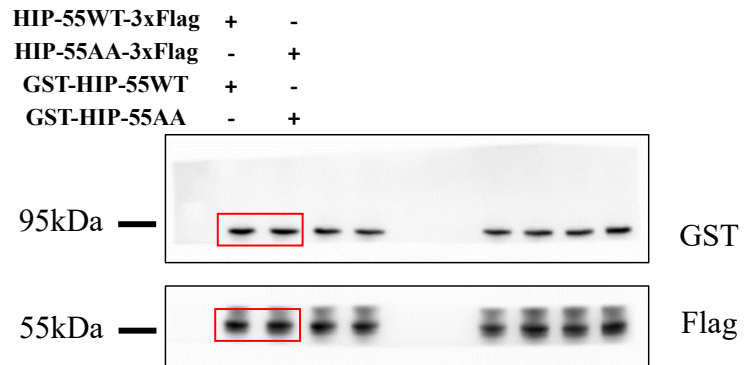
Representative

N=1

Flag Pull down



Input



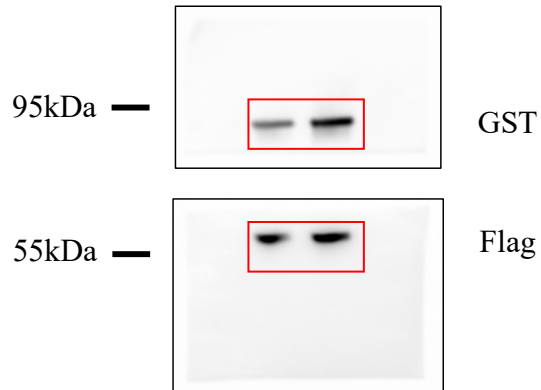
# Full unedited gel

Full unedited gel for Figure 5K

For quantification  
N=1

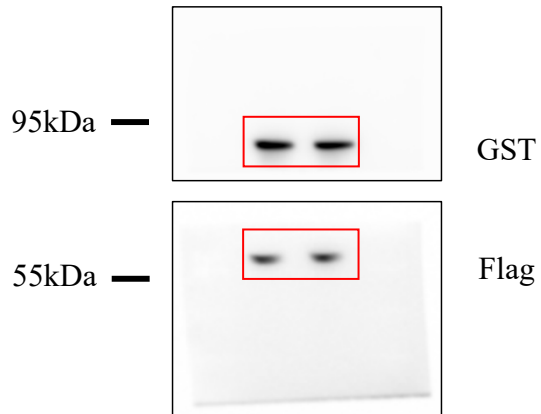
Flag Pull down

HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+
GST-HIP-55WT	+	-
GST-HIP-55AA	-	+



Input

HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+
GST-HIP-55WT	+	-
GST-HIP-55AA	-	+



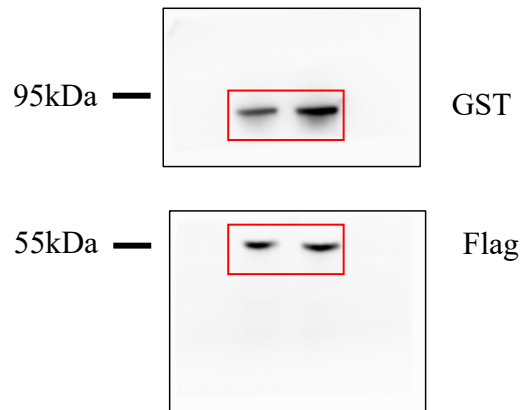
# Full unedited gel

Full unedited gel for Figure 5K

For quantification  
N=1

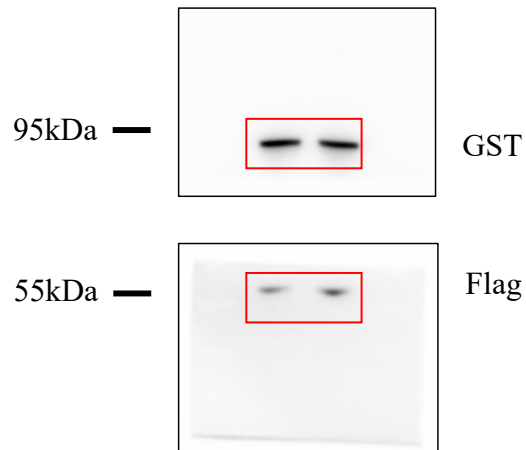
Flag Pull down

<b>HIP-55WT-3xFlag</b>	+	-
<b>HIP-55AA-3xFlag</b>	-	+
<b>GST-HIP-55WT</b>	+	-
<b>GST-HIP-55AA</b>	-	+



Input

<b>HIP-55WT-3xFlag</b>	+	-
<b>HIP-55AA-3xFlag</b>	-	+
<b>GST-HIP-55WT</b>	+	-
<b>GST-HIP-55AA</b>	-	+



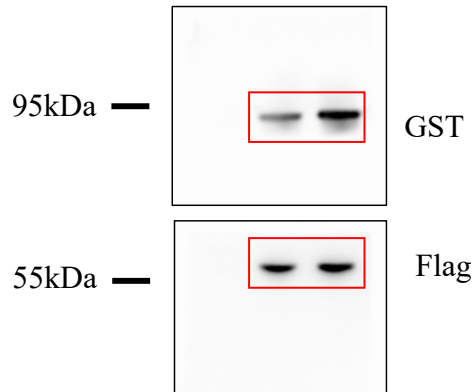
# Full unedited gel

Full unedited gel for Figure 5K

For quantification  
N=1

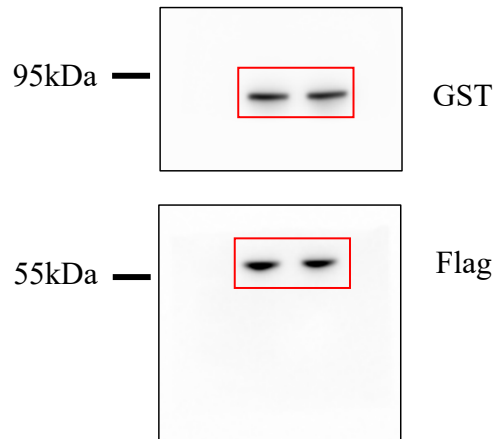
Flag Pull down

HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+
GST-HIP-55WT	+	-
GST-HIP-55AA	-	+



Input

HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+
GST-HIP-55WT	+	-
GST-HIP-55AA	-	+



# Full unedited gel

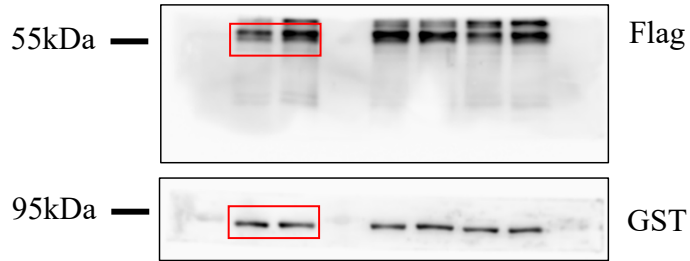
Full unedited gel for Figure 5L

Representative

N=1

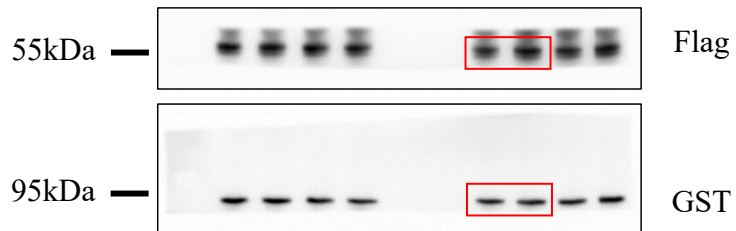
GST Pull down

GST-HIP-55WT	+	-
GST-HIP-55AA	-	+
HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+



Input

GST-HIP-55WT	+	-
GST-HIP-55AA	-	+
HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+





## Full unedited gel

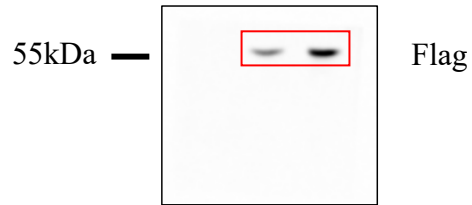
Full unedited gel for Figure 5L

For quantification

N=1

GST Pull down

GST-HIP-55WT	+	-
GST-HIP-55AA	-	+
HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+



Input

GST-HIP-55WT	+	-
GST-HIP-55AA	-	+
HIP-55WT-3xFlag	+	-
HIP-55AA-3xFlag	-	+



# Full unedited gel

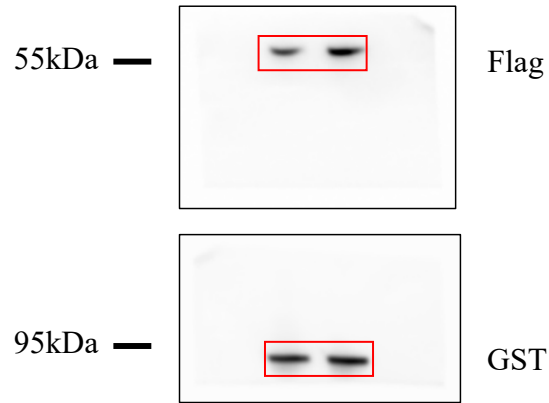
Full unedited gel for Figure 5L

For quantification

N=1

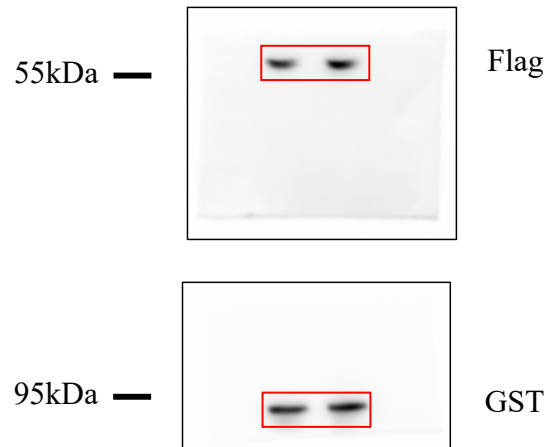
GST Pull down

<b>GST-HIP-55WT</b>	<b>+</b>	<b>-</b>
<b>GST-HIP-55AA</b>	<b>-</b>	<b>+</b>
<b>HIP-55WT-3xFlag</b>	<b>+</b>	<b>-</b>
<b>HIP-55AA-3xFlag</b>	<b>-</b>	<b>+</b>



Input

<b>GST-HIP-55WT</b>	<b>+</b>	<b>-</b>
<b>GST-HIP-55AA</b>	<b>-</b>	<b>+</b>
<b>HIP-55WT-3xFlag</b>	<b>+</b>	<b>-</b>
<b>HIP-55AA-3xFlag</b>	<b>-</b>	<b>+</b>



# Full unedited gel

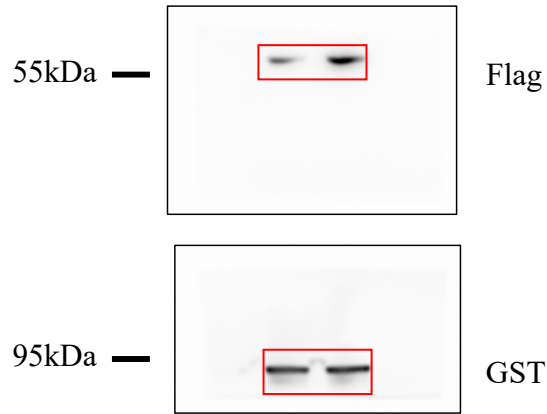
Full unedited gel for Figure 5L

For quantification

N=1

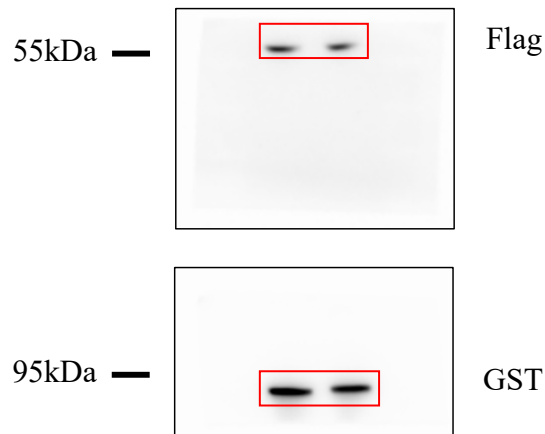
## GST Pull down

<b>GST-HIP-55WT</b>	<b>+</b>	<b>-</b>
<b>GST-HIP-55AA</b>	<b>-</b>	<b>+</b>
<b>HIP-55WT-3xFlag</b>	<b>+</b>	<b>-</b>
<b>HIP-55AA-3xFlag</b>	<b>-</b>	<b>+</b>



## Input

<b>GST-HIP-55WT</b>	<b>+</b>	<b>-</b>
<b>GST-HIP-55AA</b>	<b>-</b>	<b>+</b>
<b>HIP-55WT-3xFlag</b>	<b>+</b>	<b>-</b>
<b>HIP-55AA-3xFlag</b>	<b>-</b>	<b>+</b>



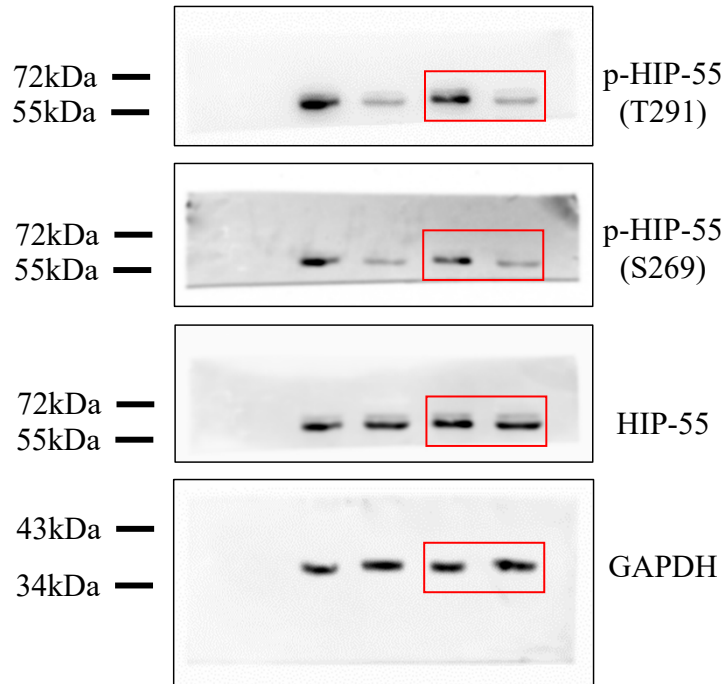
### Full unedited gel

Full unedited gel for Figure 6A

Representative

N=1

ISO (10 $\mu$ M) - +

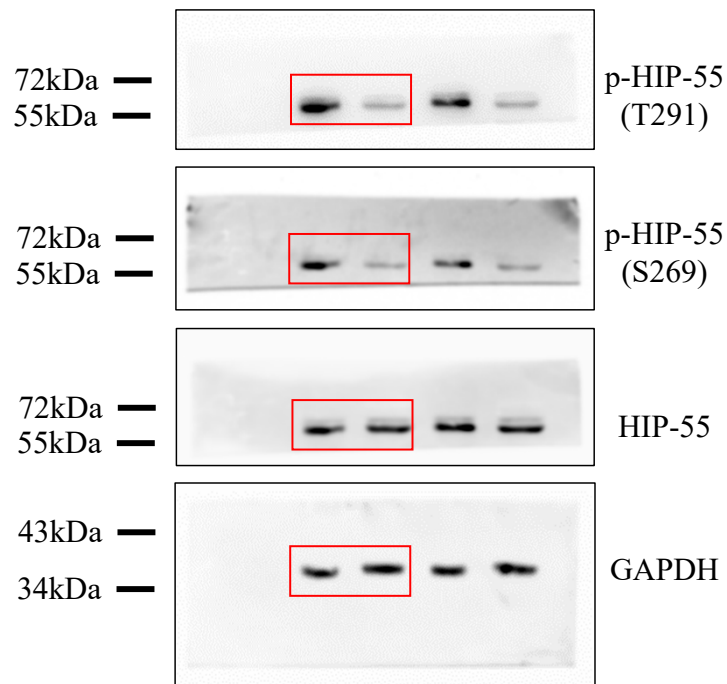


Full unedited gel for Figure 6A

For quantification

N=1

ISO (10 $\mu$ M) - +

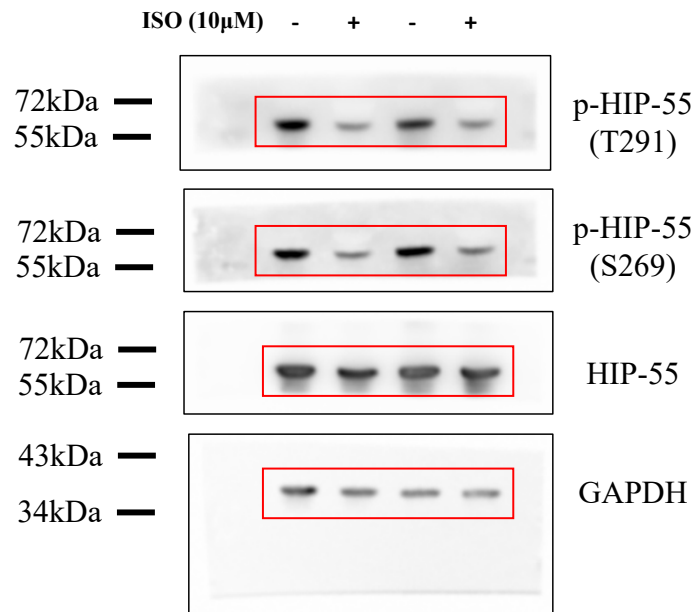


### Full unedited gel

Full unedited gel for Figure 6A

For quantification

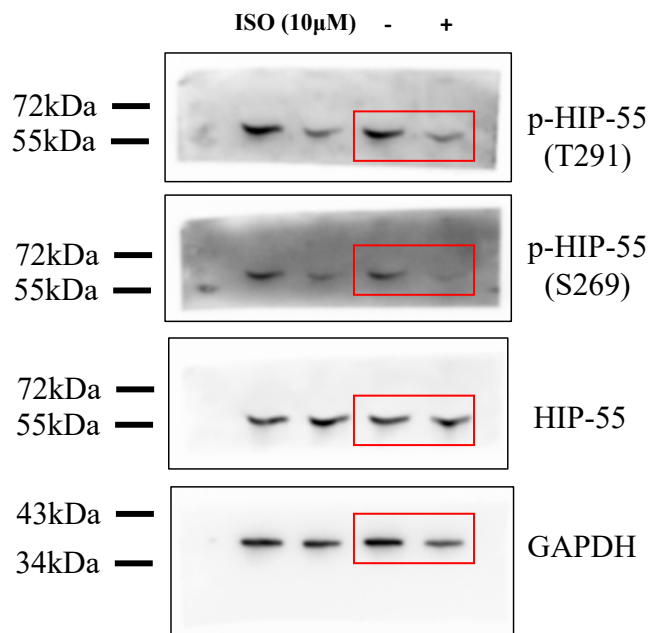
N=2



Full unedited gel for Figure 6A

For quantification

N=1

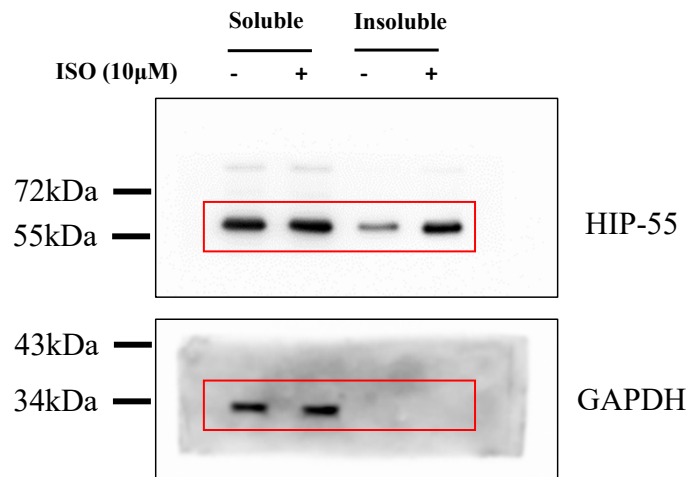


### Full unedited gel

Full unedited gel for Figure 6E

Representative

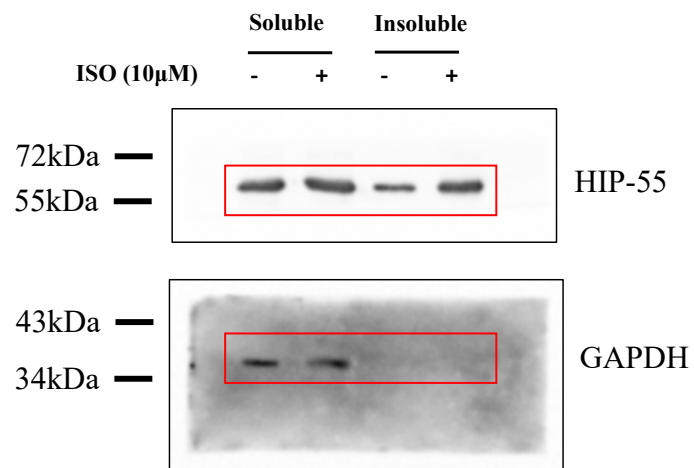
N=1



Full unedited gel for Figure 6E

For quantification

N=1

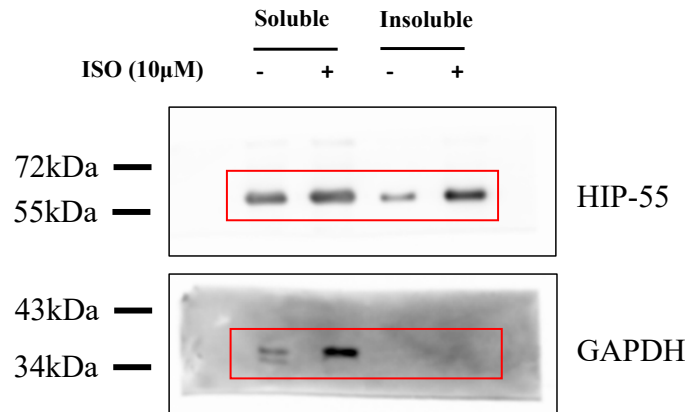


### Full unedited gel

Full unedited gel for Figure 6E

For quantification

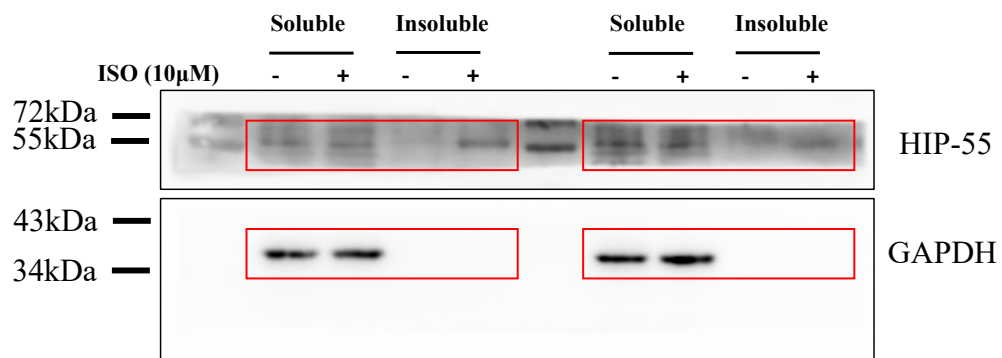
N=1



Full unedited gel for Figure 6E

For quantification

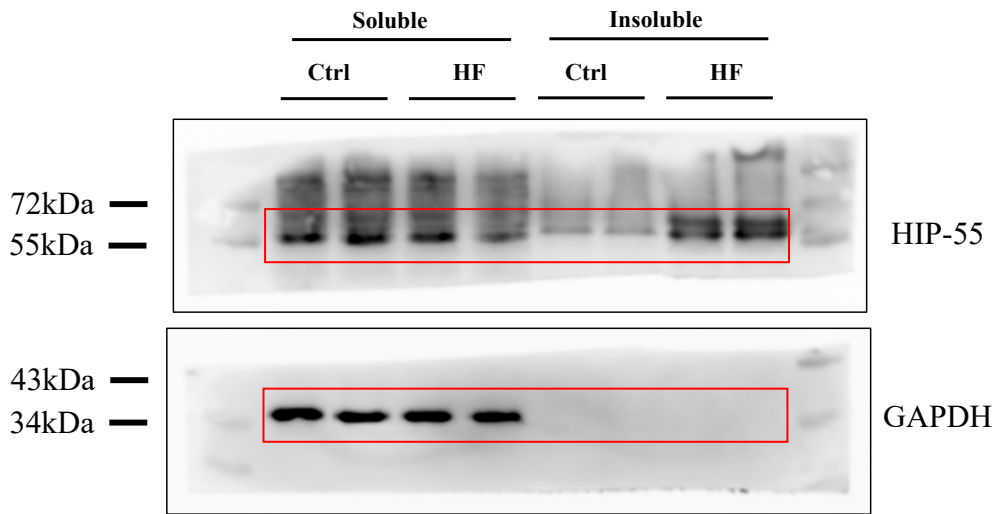
N=2



# Full unedited gel

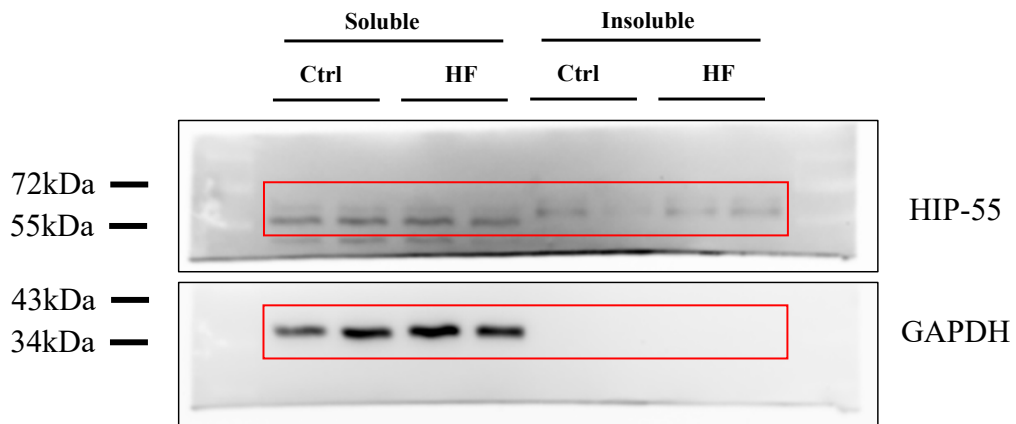
Full unedited gel for Figure 6F

Representative  
N=2



Full unedited gel for Figure 6F

For quantification  
N=2



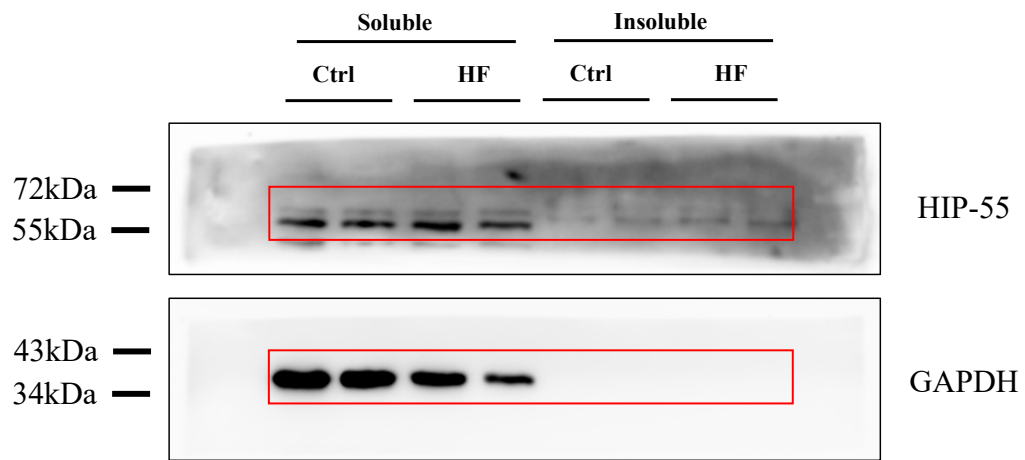


# Full unedited gel

Full unedited gel for Figure 6F

For quantification

N=2

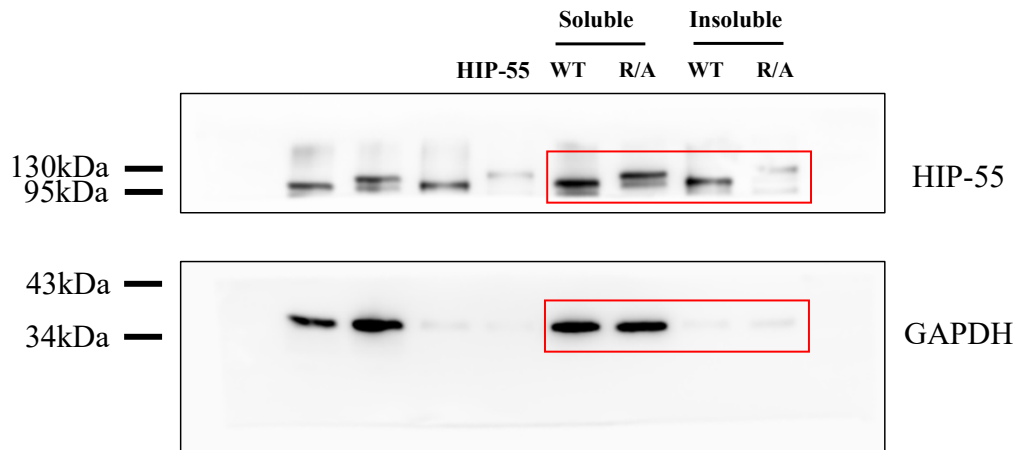


# Full unedited gel

Full unedited gel for Figure 6G

Representative

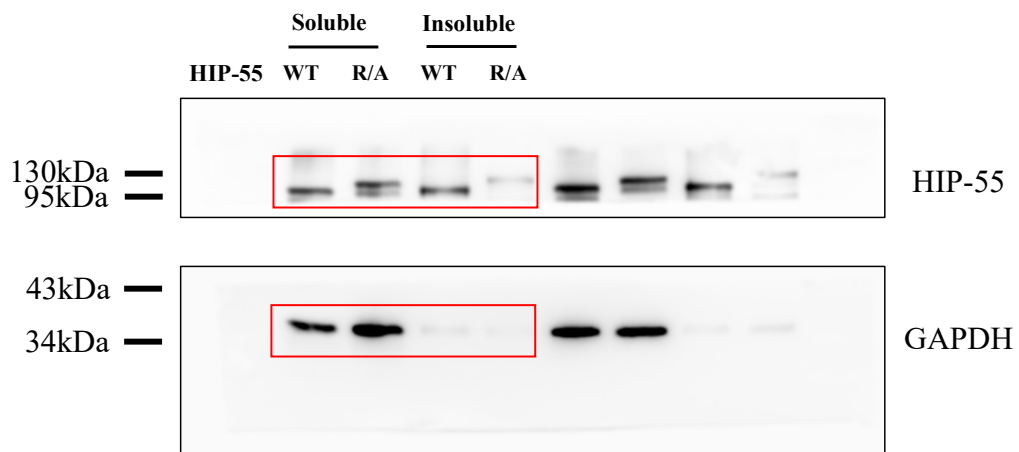
N=1



Full unedited gel for Figure 6G

For quantification

N=1

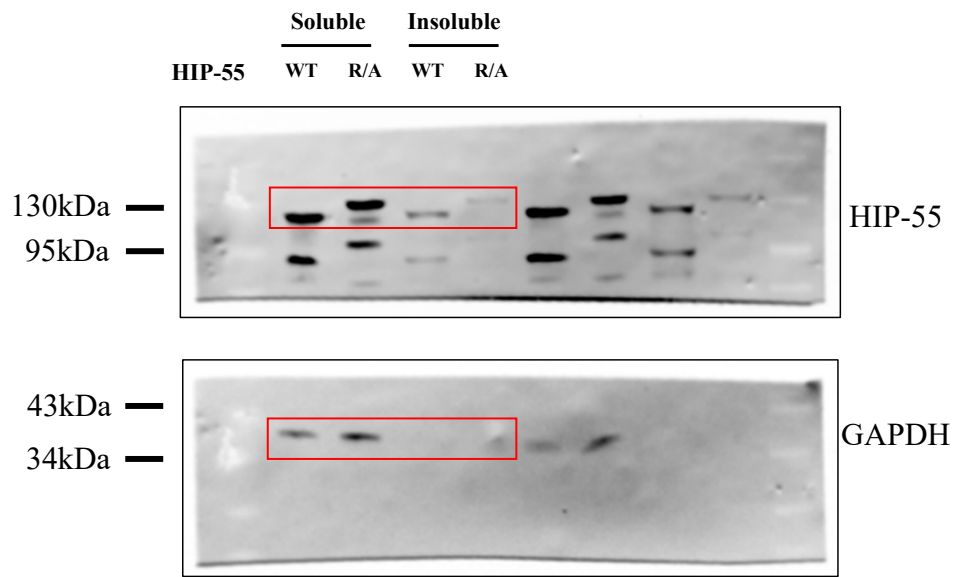


# Full unedited gel

Full unedited gel for Figure 6G

For quantification

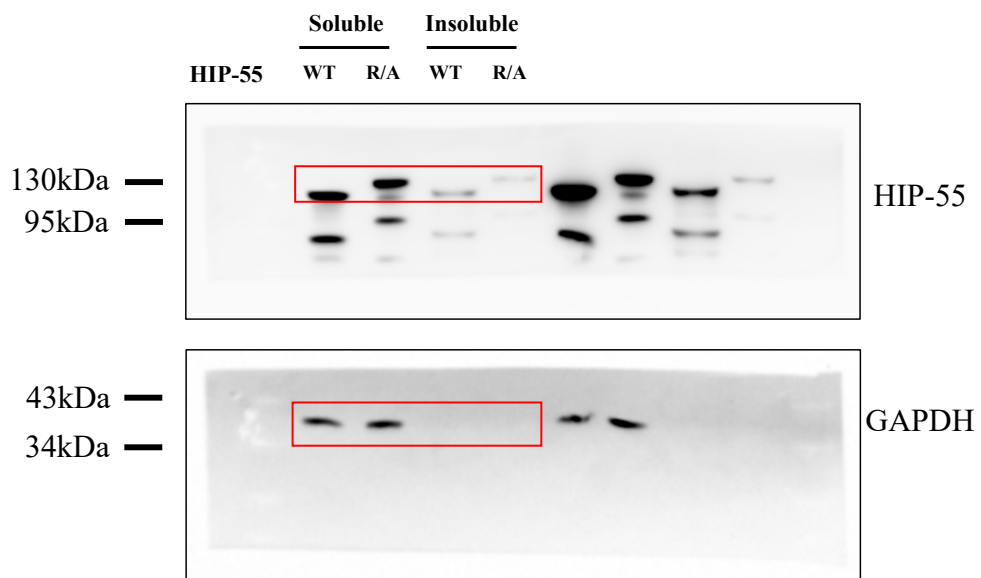
N=1



Full unedited gel for Figure 6G

For quantification

N=1

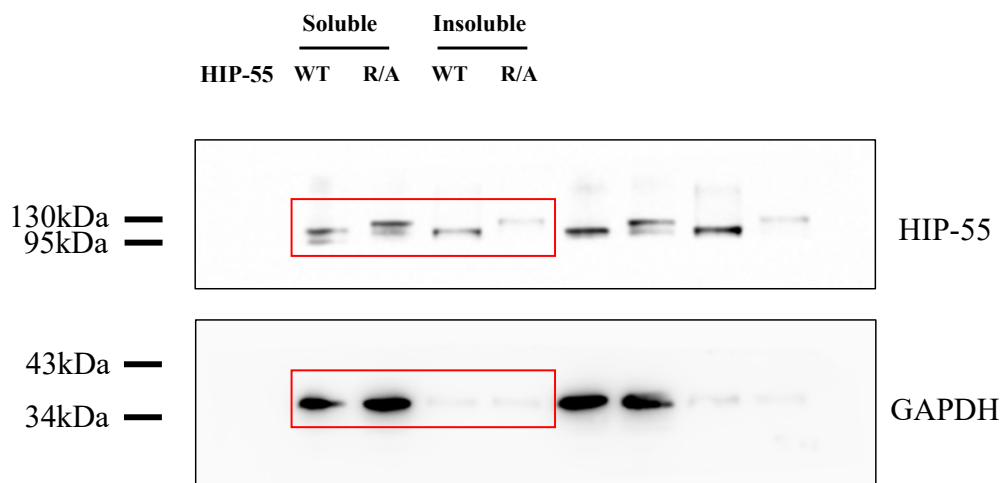


# Full unedited gel

Full unedited gel for Figure 6G

For quantification

N=1

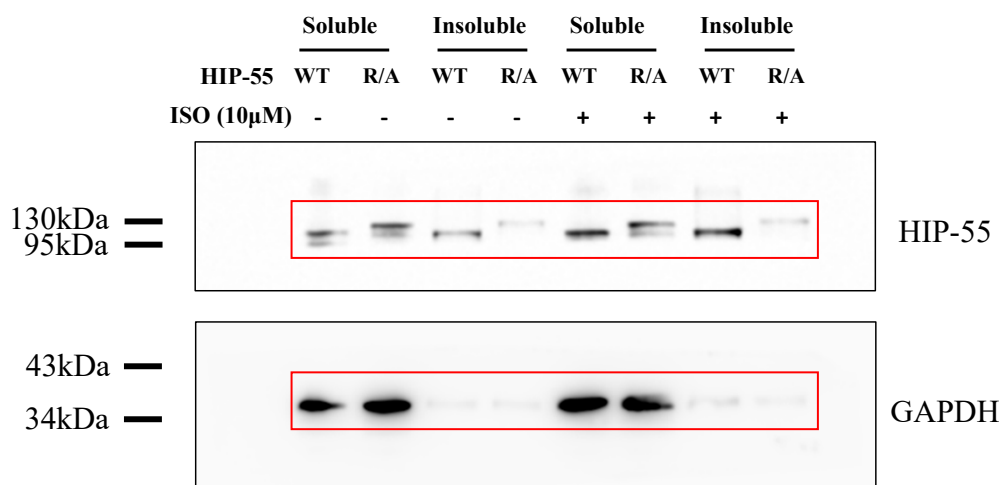


## Full unedited gel

Full unedited gel for Figure 6H

Representative

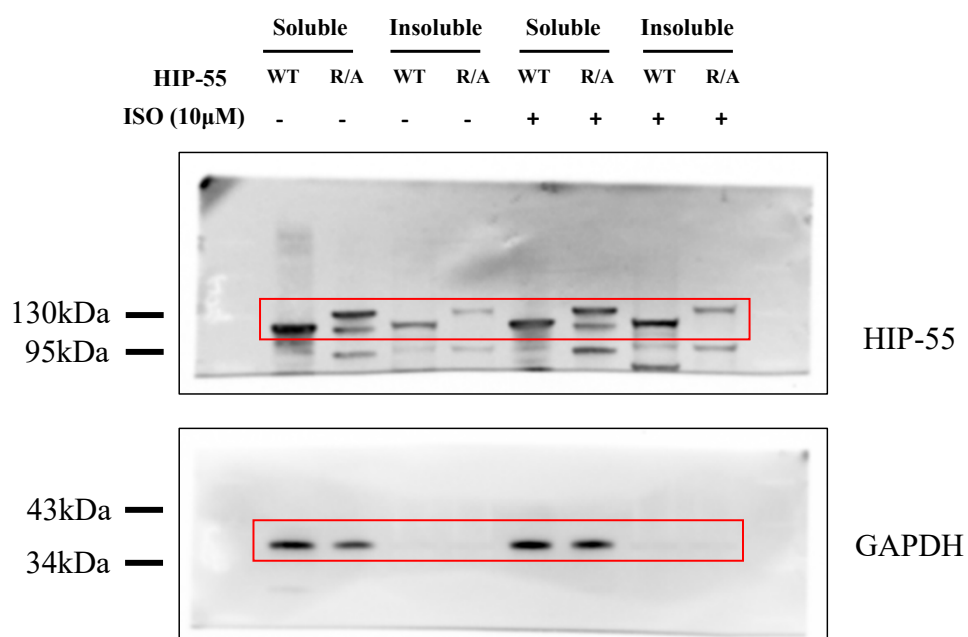
N=1



Full unedited gel for Figure 6H

For quantification

N=1

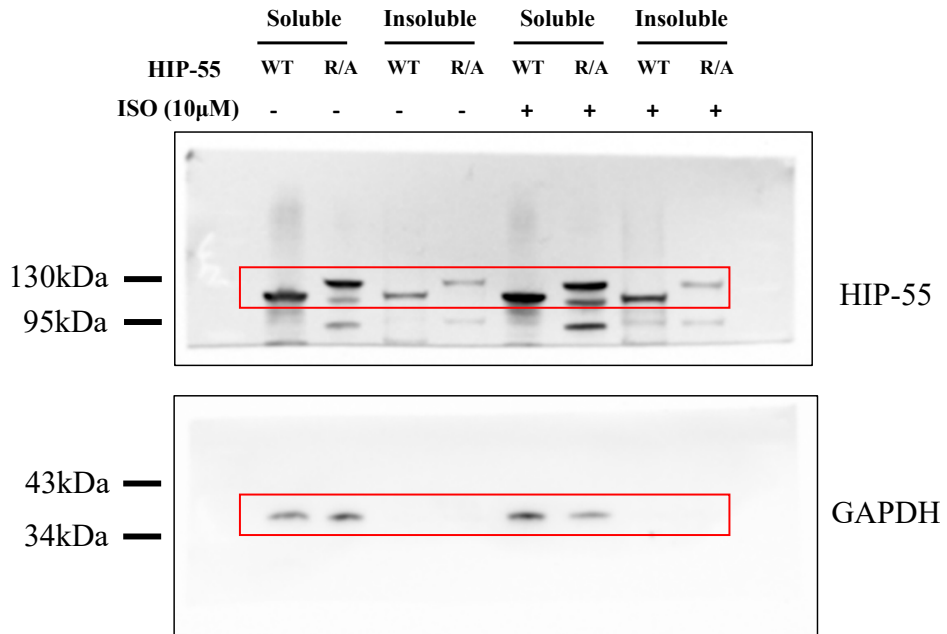


### Full unedited gel

Full unedited gel for Figure 6H

For quantification

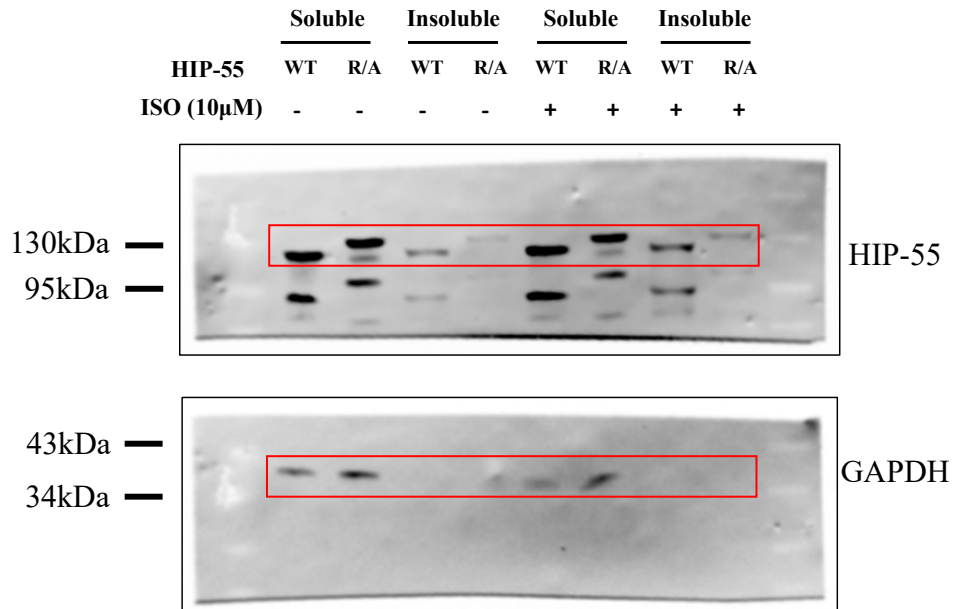
N=1



Full unedited gel for Figure 6H

For quantification

N=1

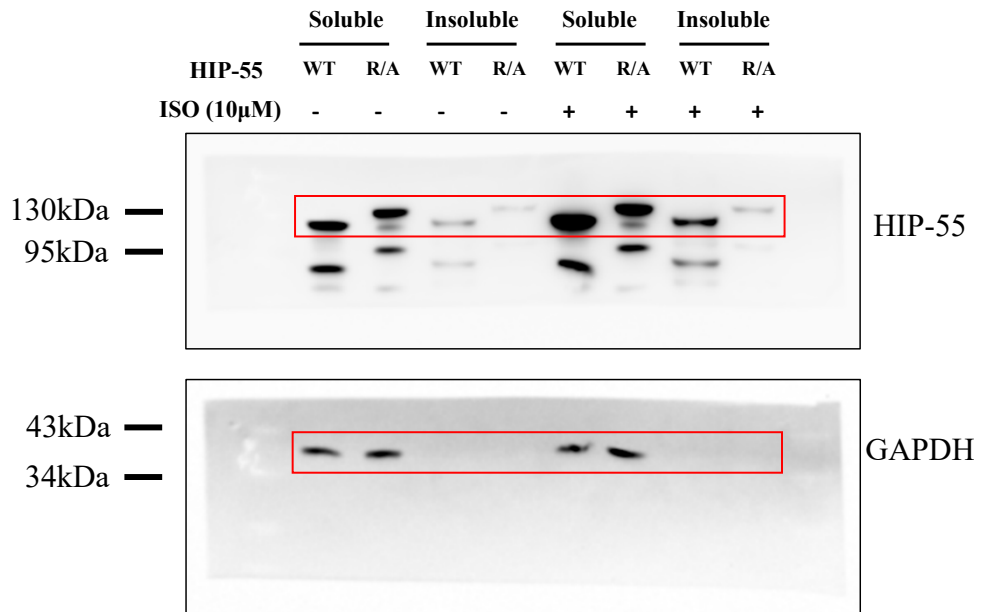


# Full unedited gel

Full unedited gel for Figure 6H

For quantification

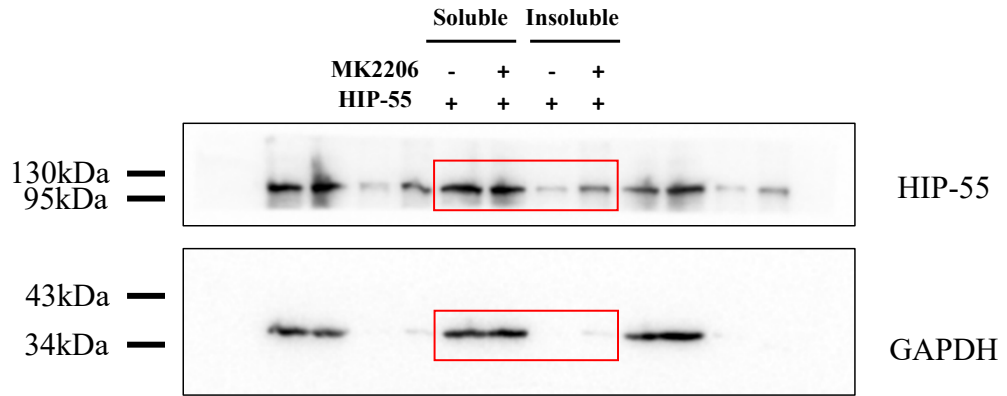
N=1



# Full unedited gel

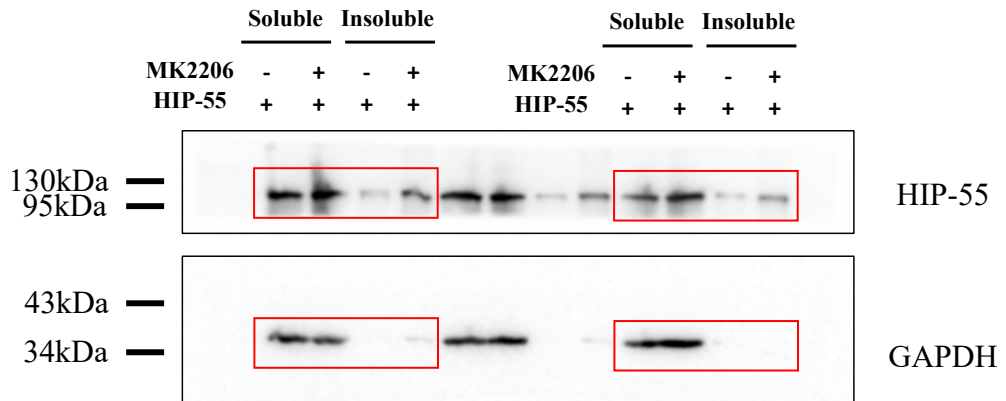
Full unedited gel for Figure 6I

Representative  
N=1



Full unedited gel for Figure 6I

For quantification  
N=2

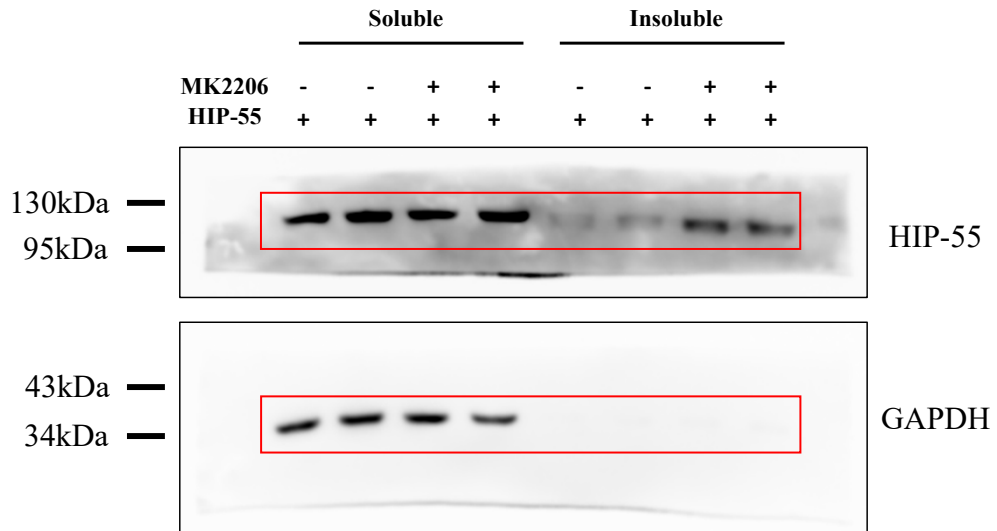




# Full unedited gel

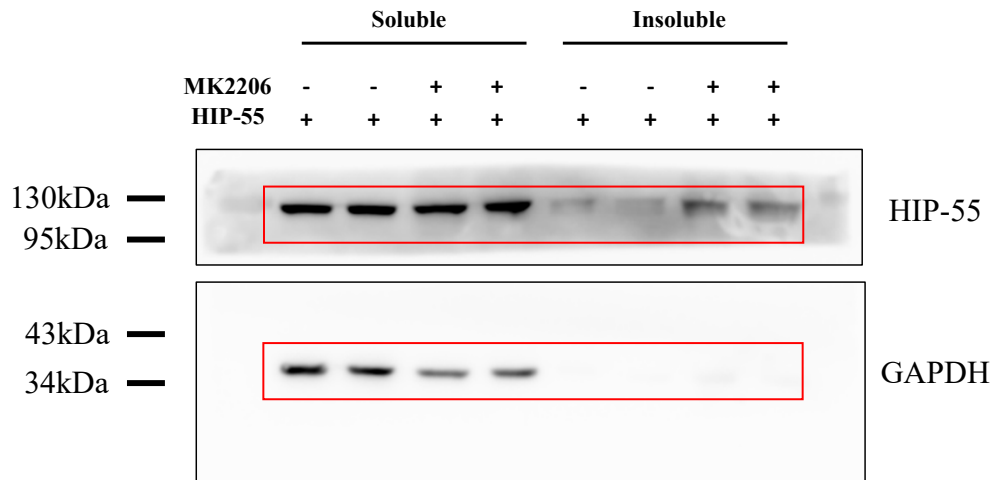
Full unedited gel for Figure 6I

For quantification  
N=2



Full unedited gel for Figure 6I

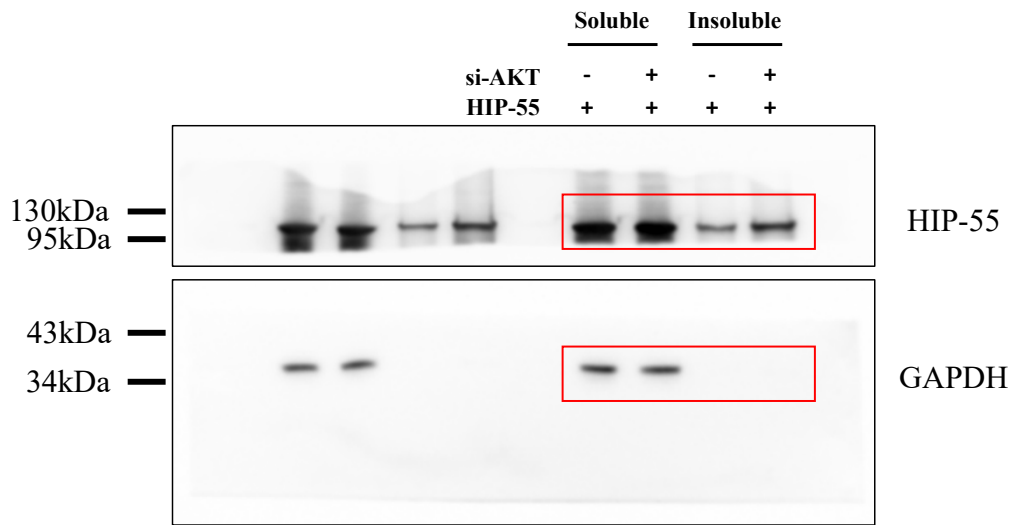
For quantification  
N=2



# Full unedited gel

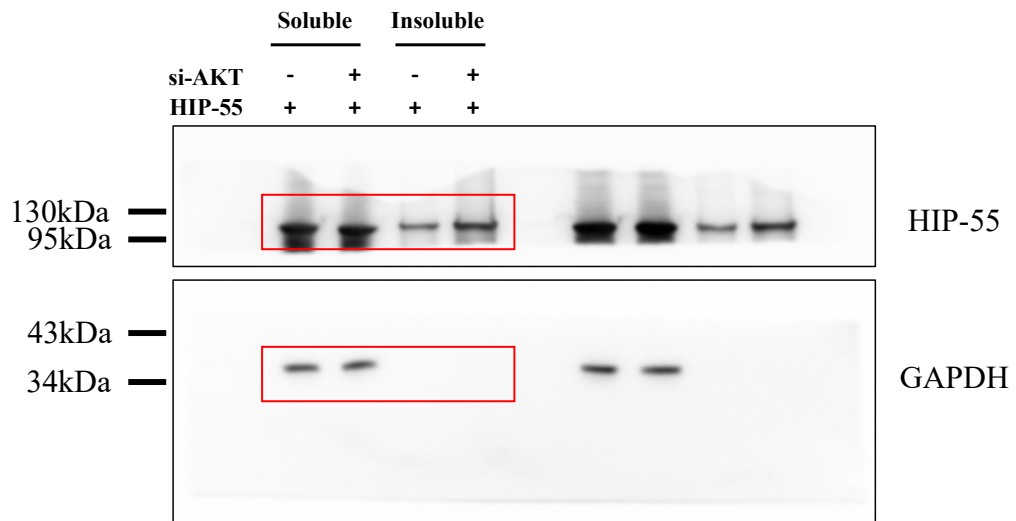
Full unedited gel for Figure 6J

Representative  
N=1



Full unedited gel for Figure 6J

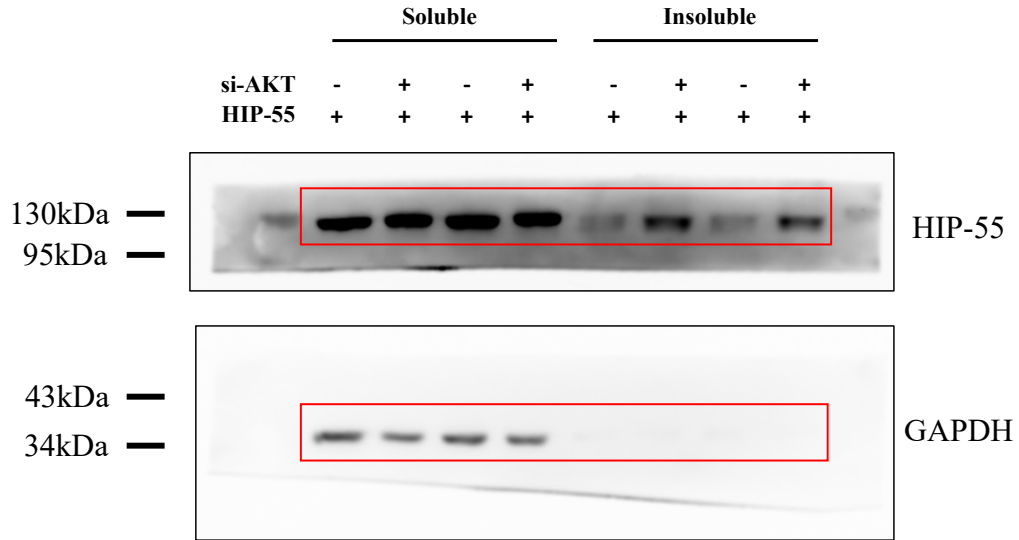
For quantification  
N=1



## Full unedited gel

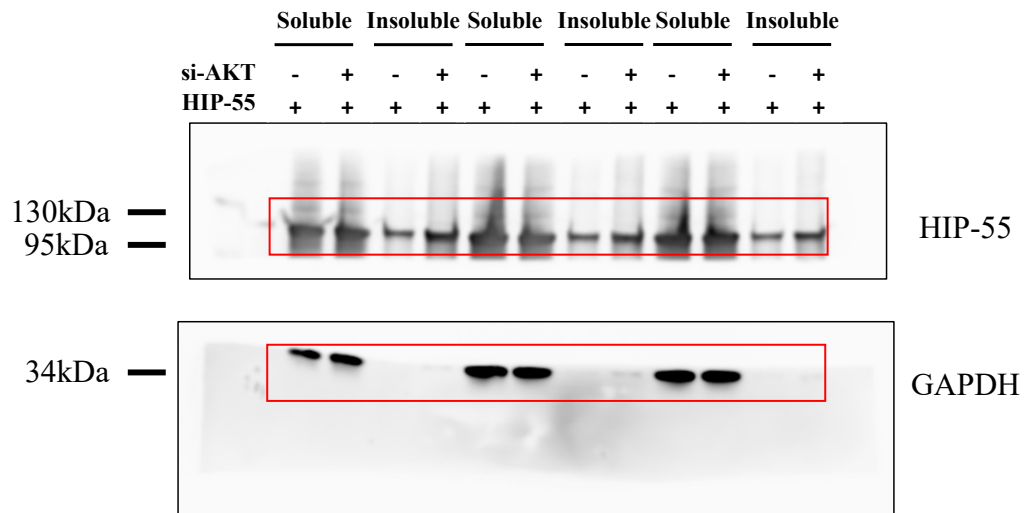
Full unedited gel for Figure 6J

For quantification  
N=2



Full unedited gel for Figure 6J

For quantification  
N=3

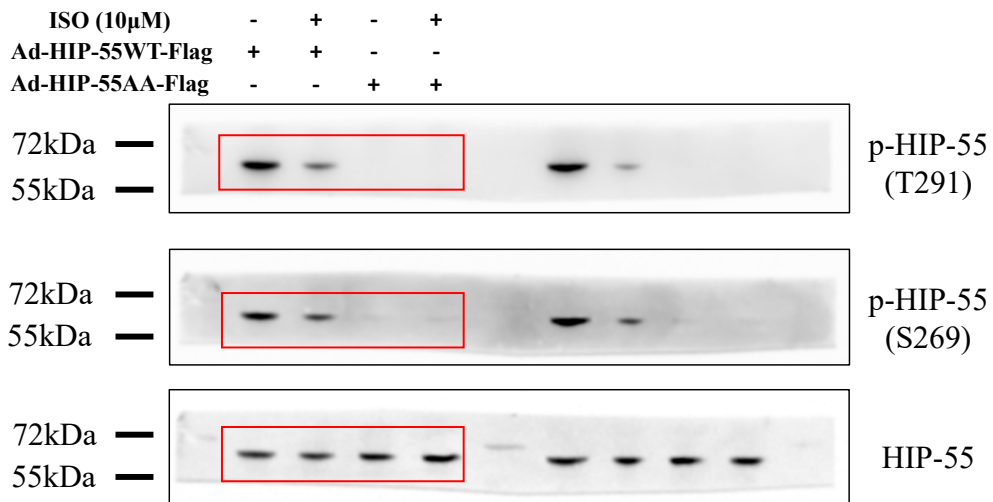


# Full unedited gel

Full unedited gel for Figure 6K

Representative

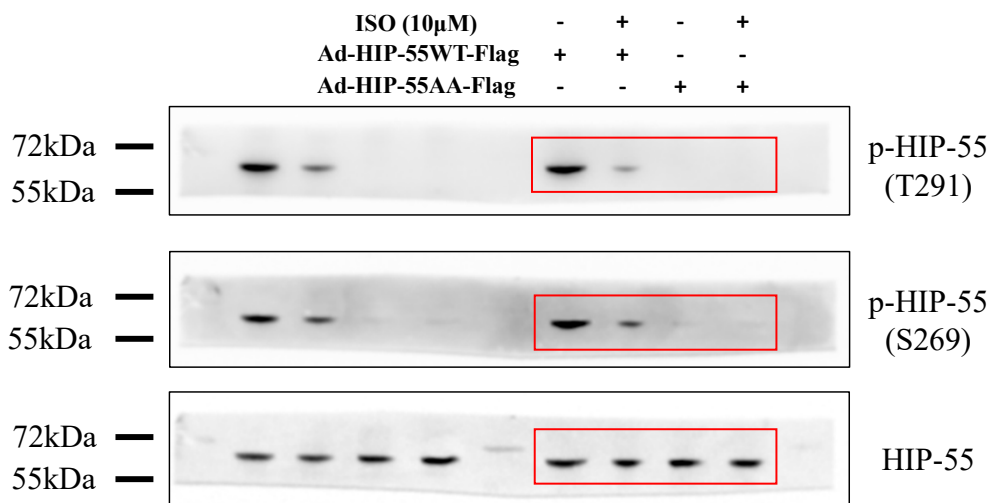
N=1



Full unedited gel for Figure 6K

For quantification

N=1

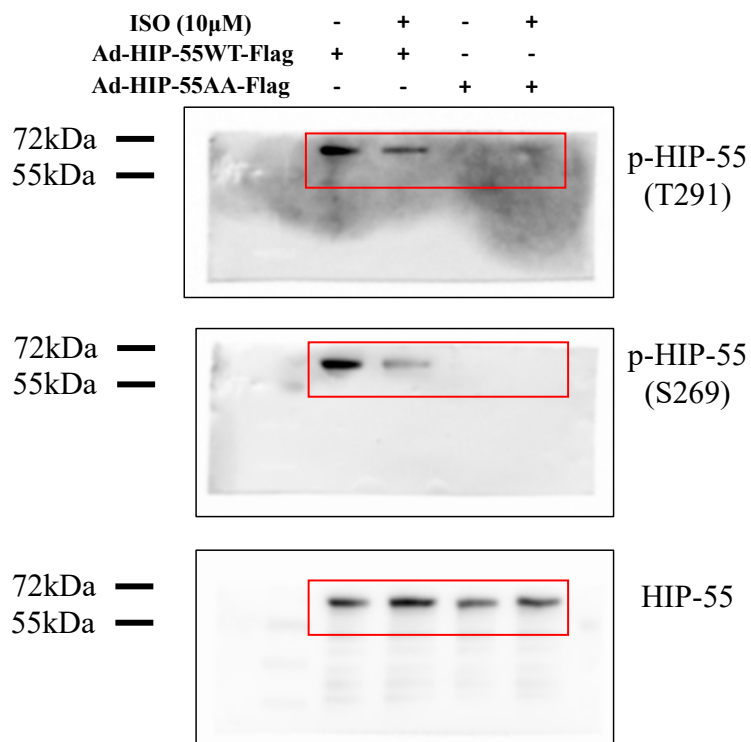


# Full unedited gel

Full unedited gel for Figure 6K

For quantification

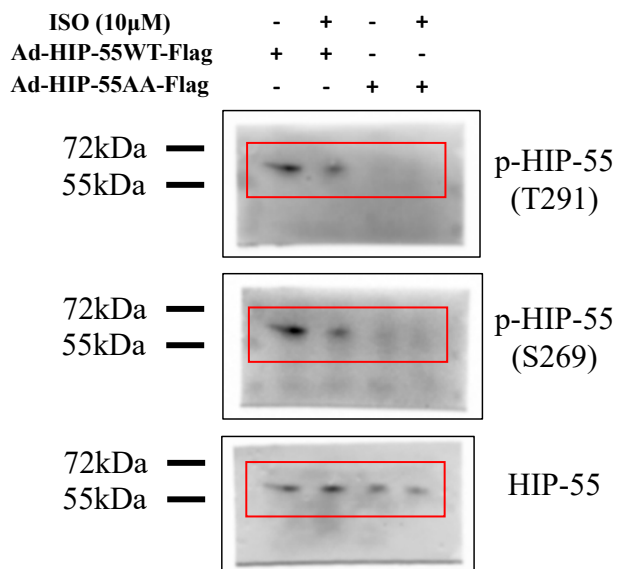
N=1



Full unedited gel for Figure 6K

For quantification

N=1



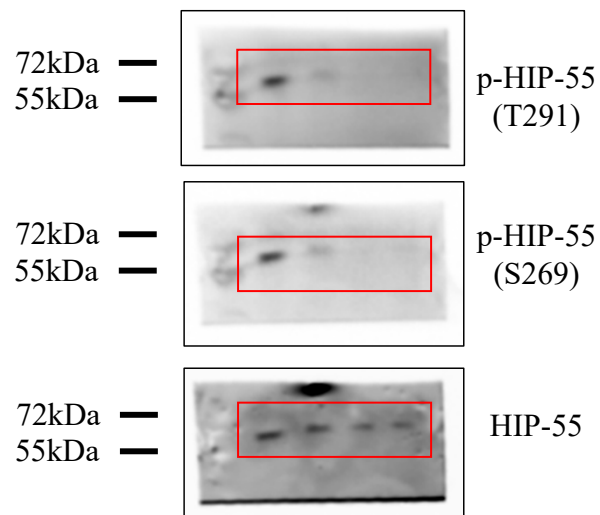
# Full unedited gel

Full unedited gel for Figure 6K

For quantification

N=1

ISO (10 $\mu$ M)	-	+	-	+
Ad-HIP-55WT-Flag	+	+	-	-
Ad-HIP-55AA-Flag	-	-	+	+

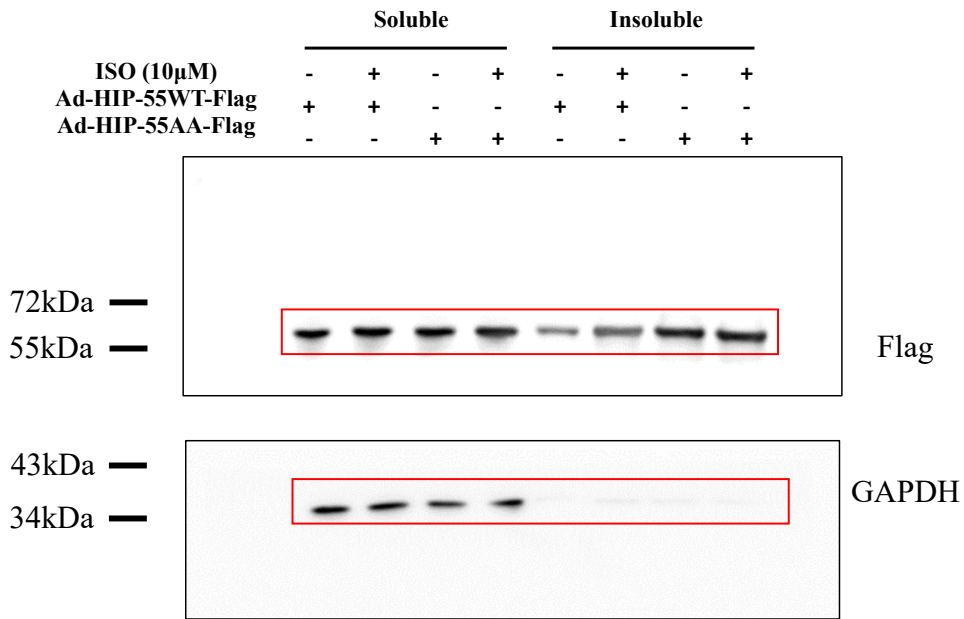


### Full unedited gel

Full unedited gel for Figure 6M

Representative

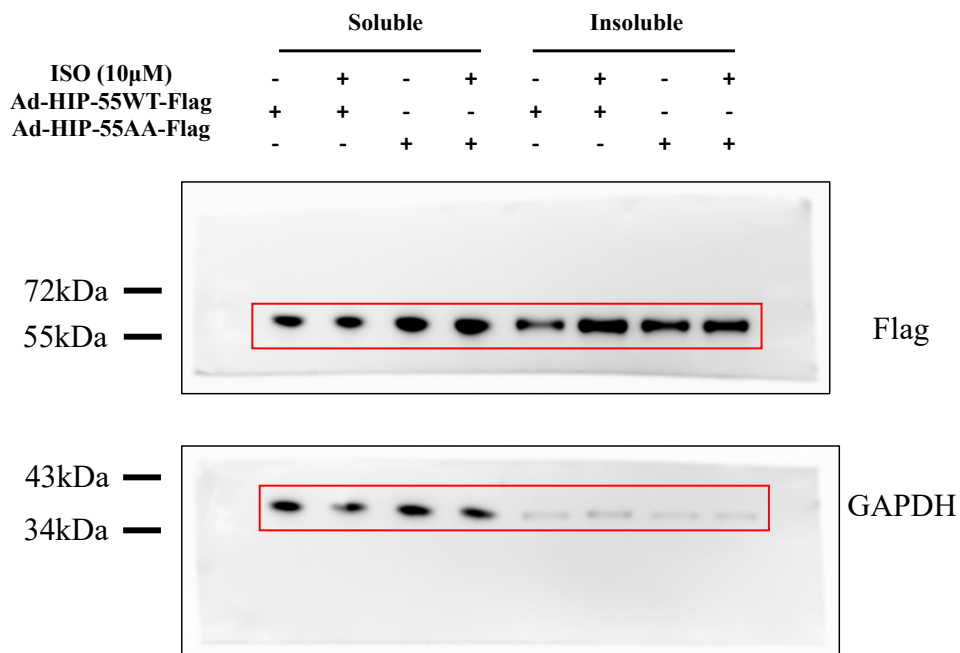
N=1



Full unedited gel for Figure 6M

For quantification

N=1

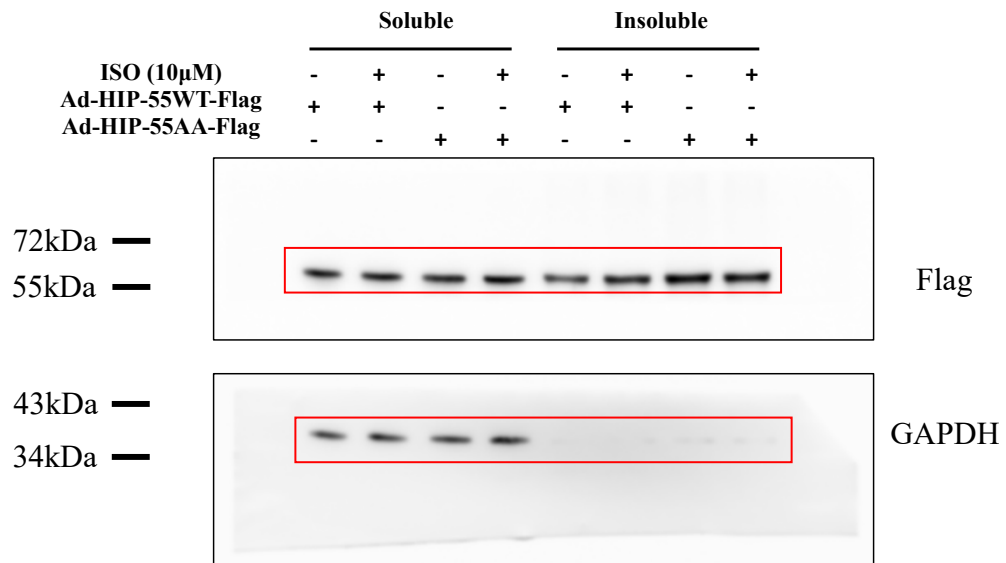


### Full unedited gel

Full unedited gel for Figure 6M

For quantification

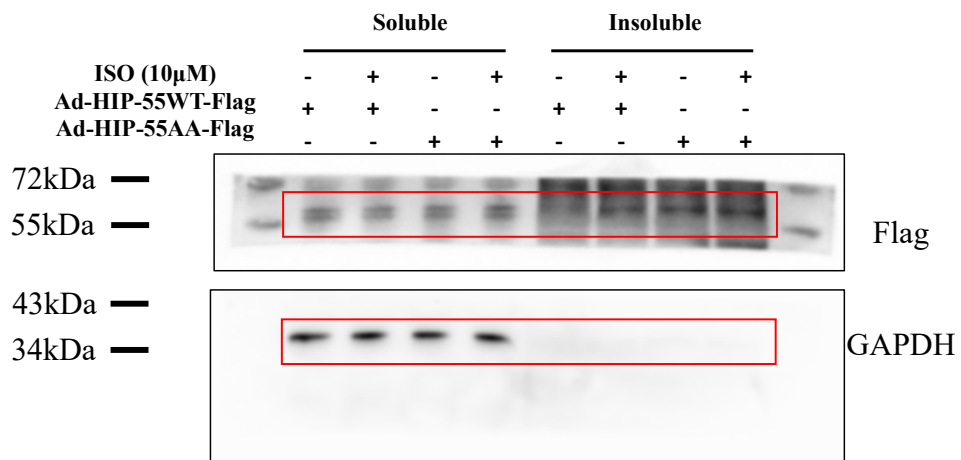
N=1



Full unedited gel for Figure 6M

For quantification

N=1



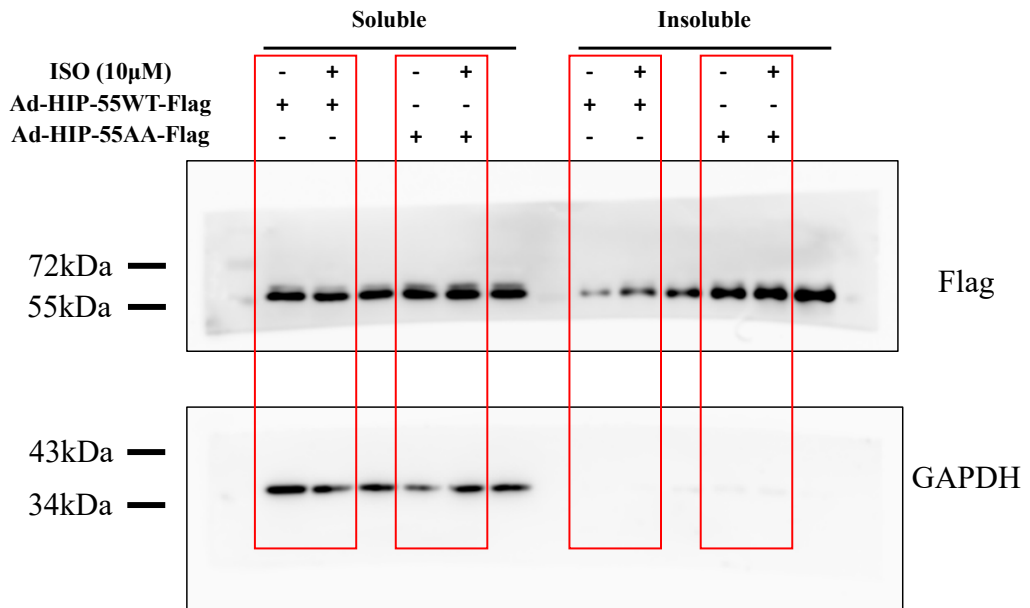


# Full unedited gel

Full unedited gel for Figure 6M

For quantification

N=1

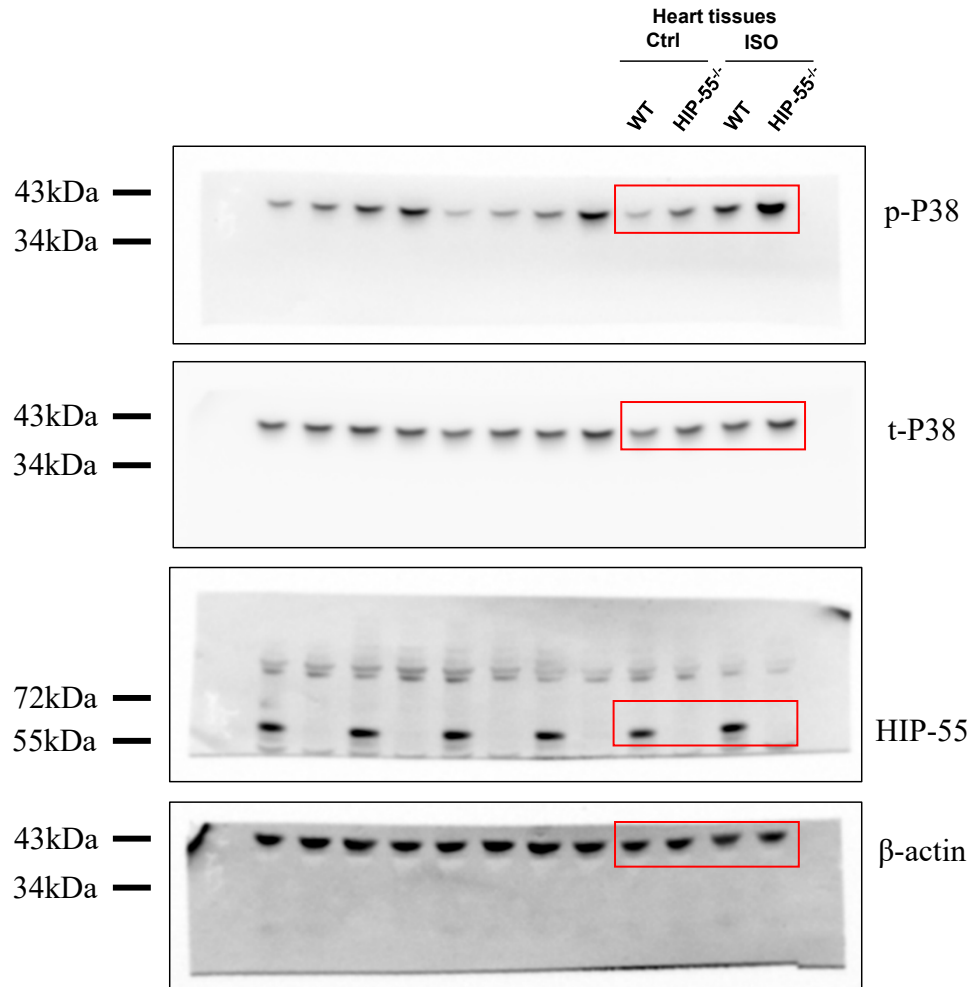


# Full unedited gel

Full unedited gel for Figure 7A

Representative

N=1

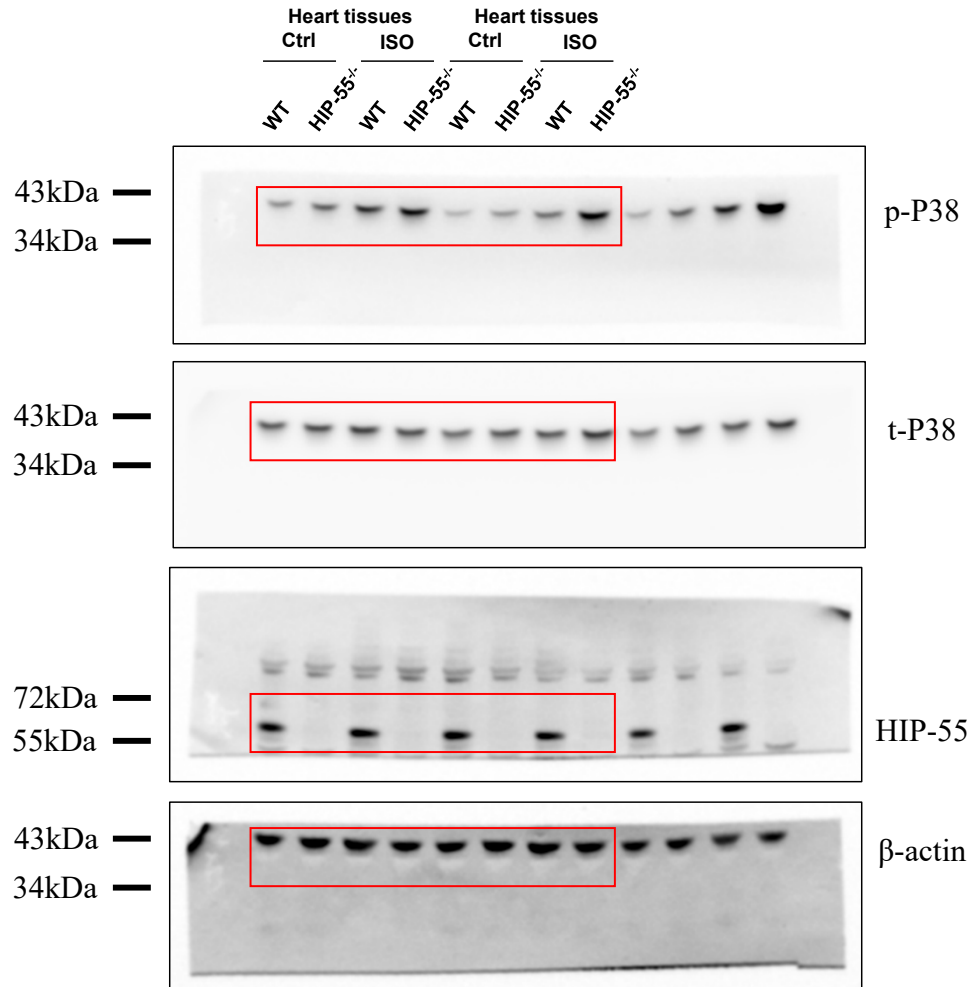


# Full unedited gel

Full unedited gel for Figure 7A

For quantification

N=2

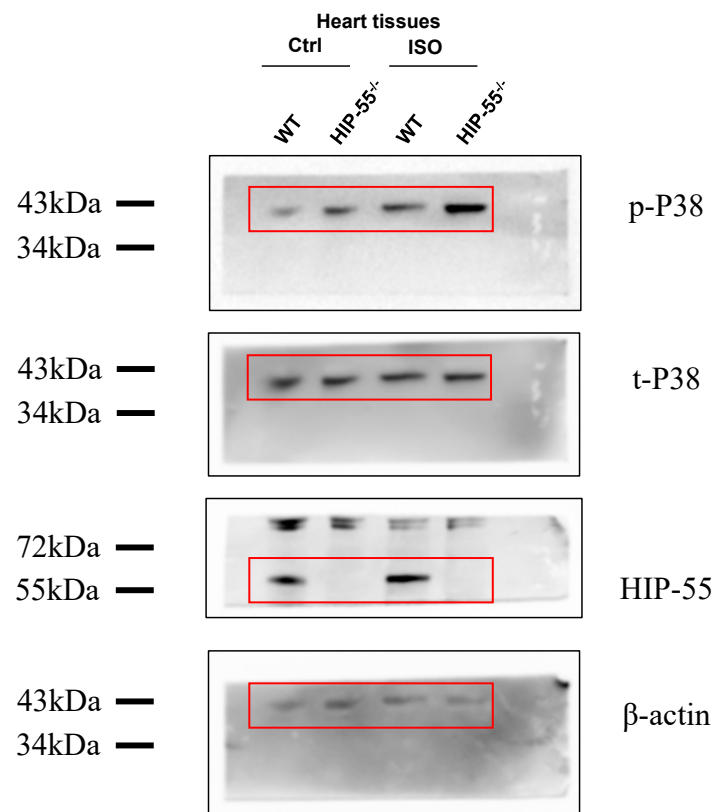


# Full unedited gel

Full unedited gel for Figure 7A

For quantification

N=1

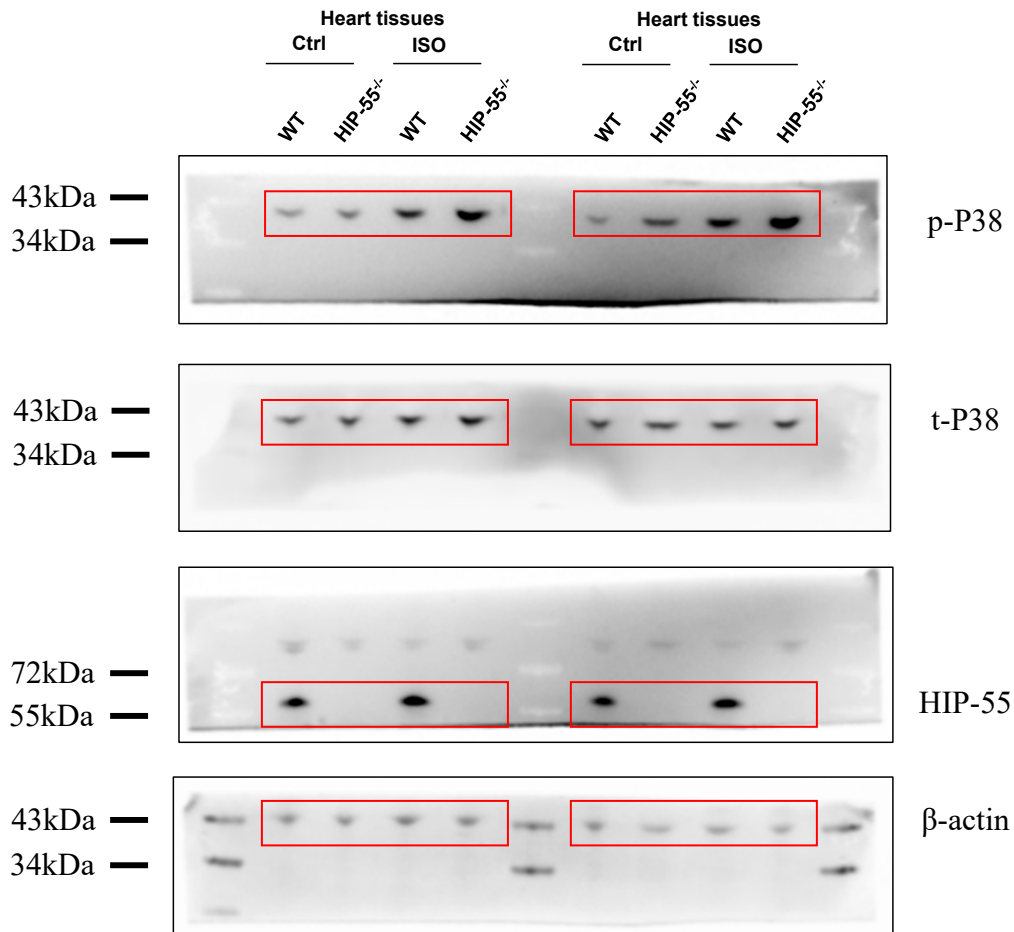


# Full unedited gel

Full unedited gel for Figure 7A

For quantification

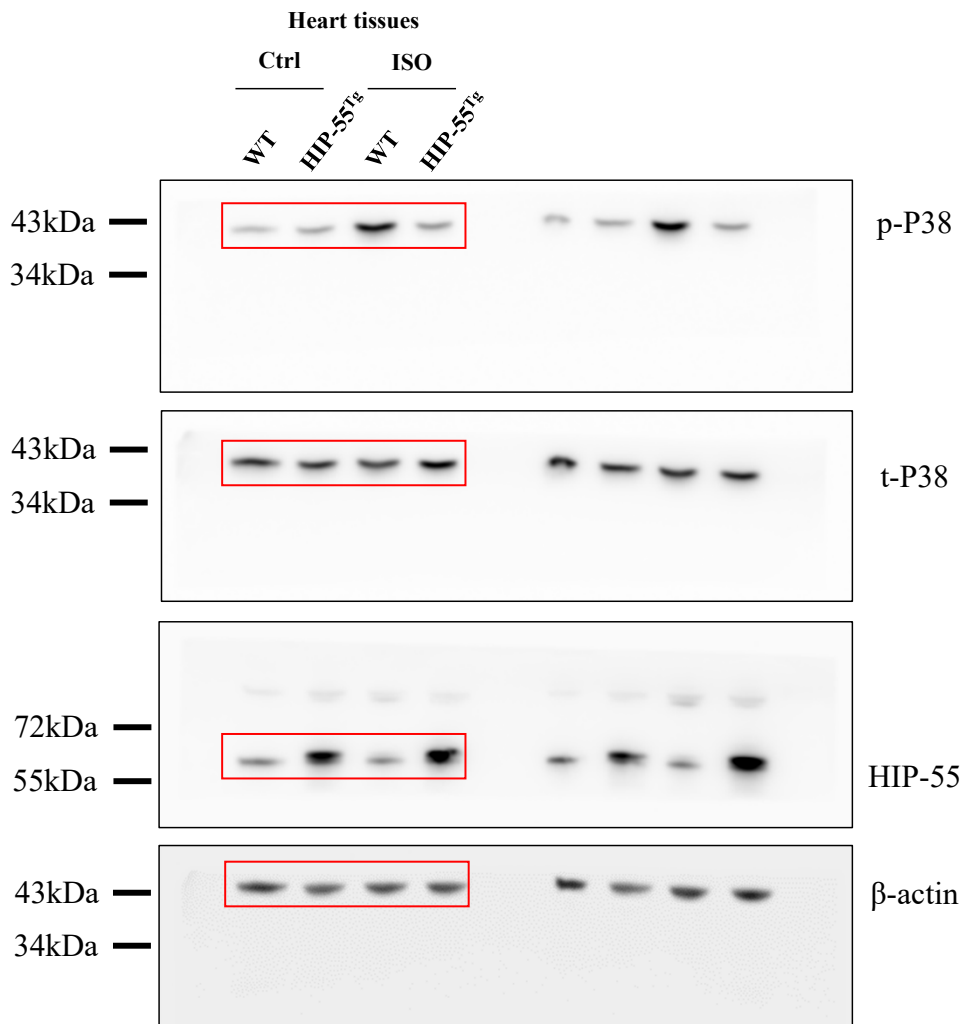
N=2



# Full unedited gel

Full unedited gel for Figure 7B

Representative  
N=1



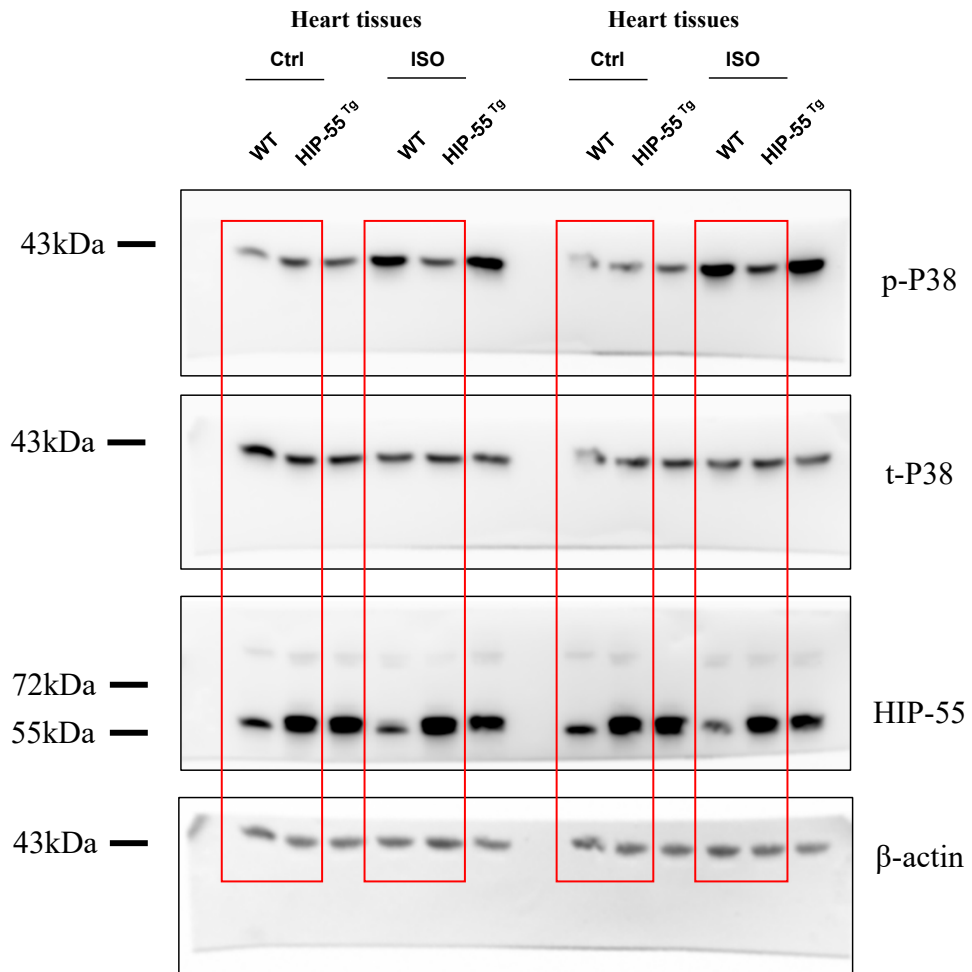


# Full unedited gel

Full unedited gel for Figure 7B

For quantification

N=2

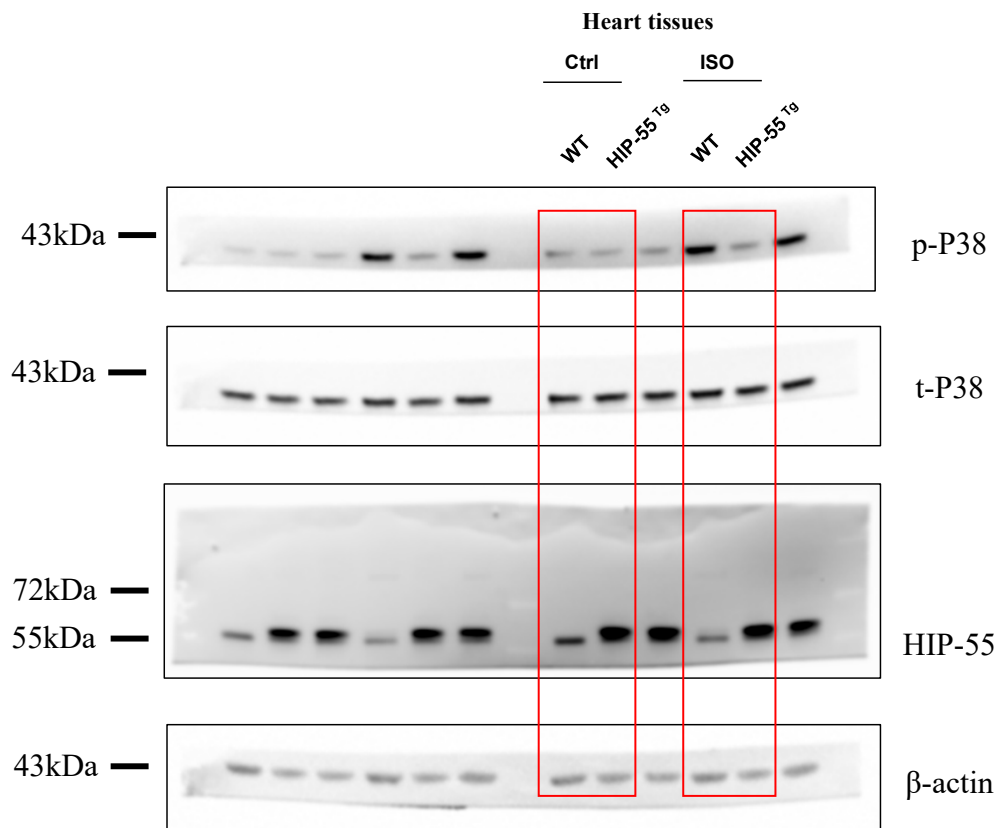




# Full unedited gel

Full unedited gel for Figure 7B

For quantification  
N=1



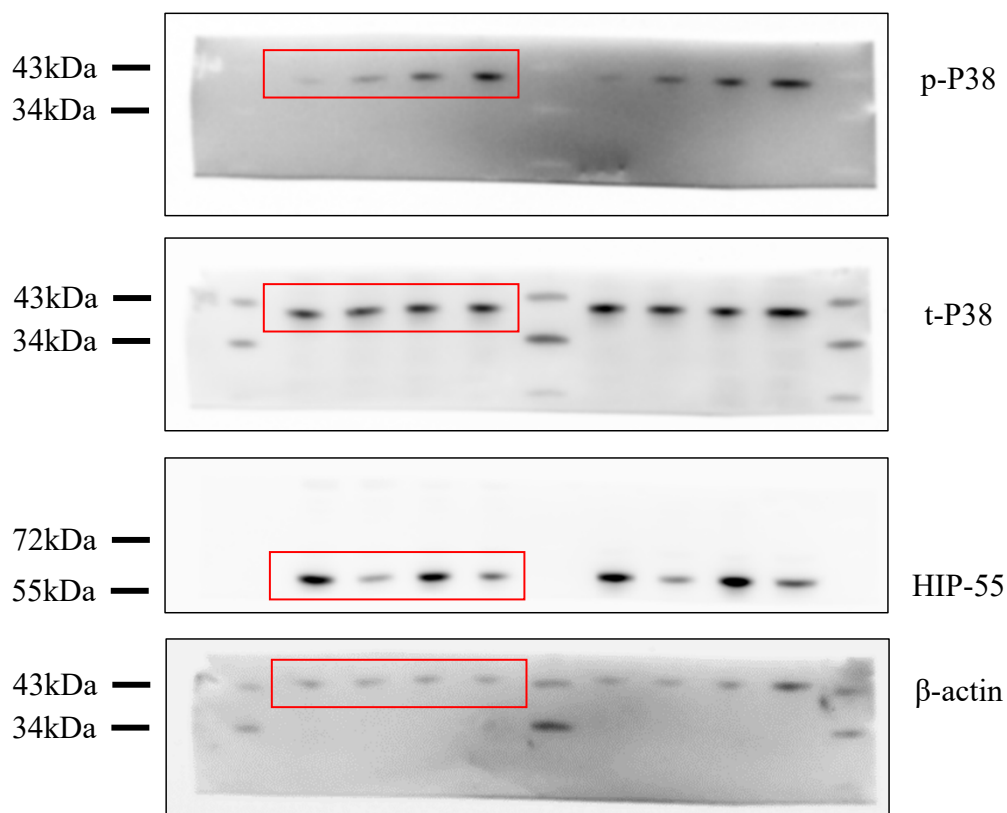
# Full unedited gel

Full unedited gel for Figure 7C

Representative

N=1

ISO	-	-	+	+
Sh-Ctrl	+	-	+	-
Sh-HIP-55	-	+	-	+



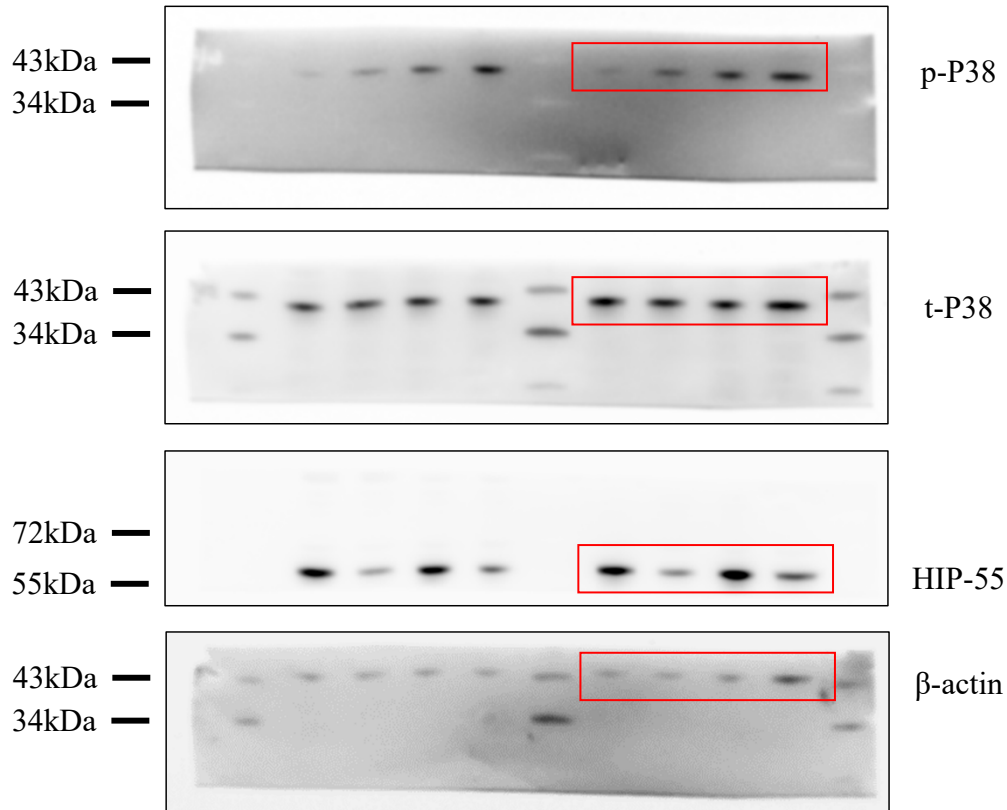
# Full unedited gel

Full unedited gel for Figure 7C

For quantification

N=1

ISO	-	-	+	+
Sh-Ctrl	+	-	+	-
Sh-HIP-55	-	+	-	+



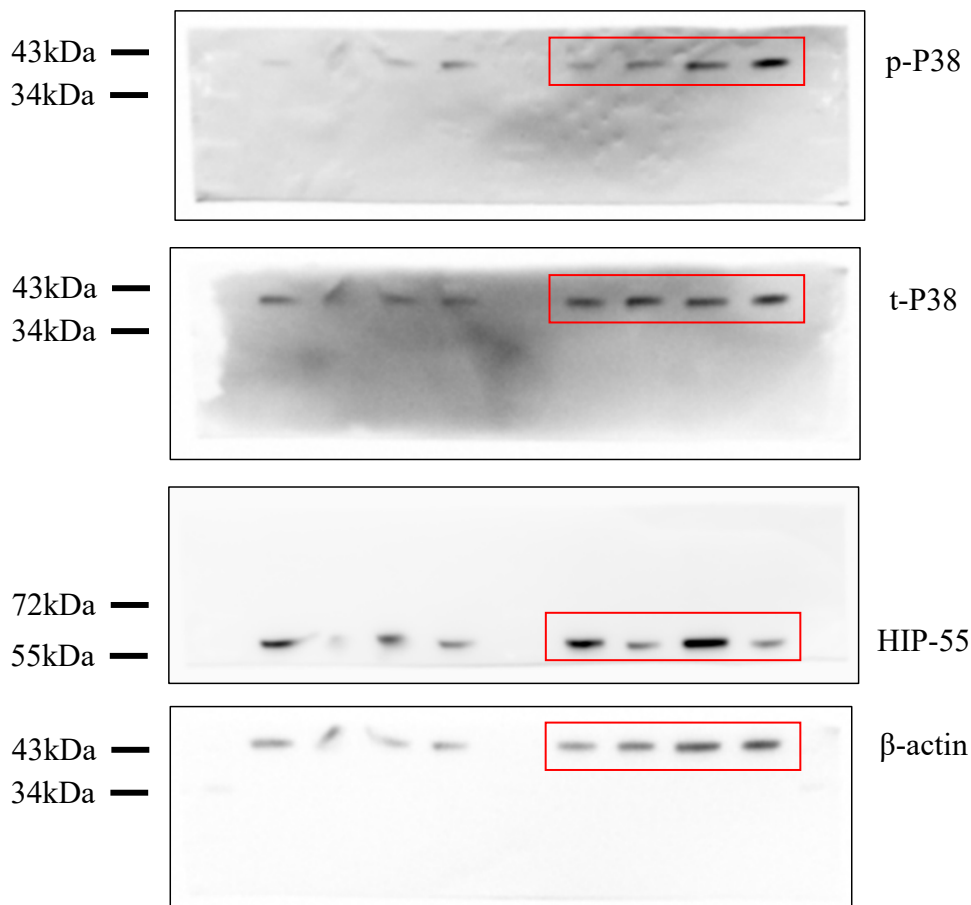
# Full unedited gel

Full unedited gel for Figure 7C

For quantification

N=1

ISO	-	-	+	+
Sh-Ctrl	+	-	+	-
Sh-HIP-55	-	+	-	+



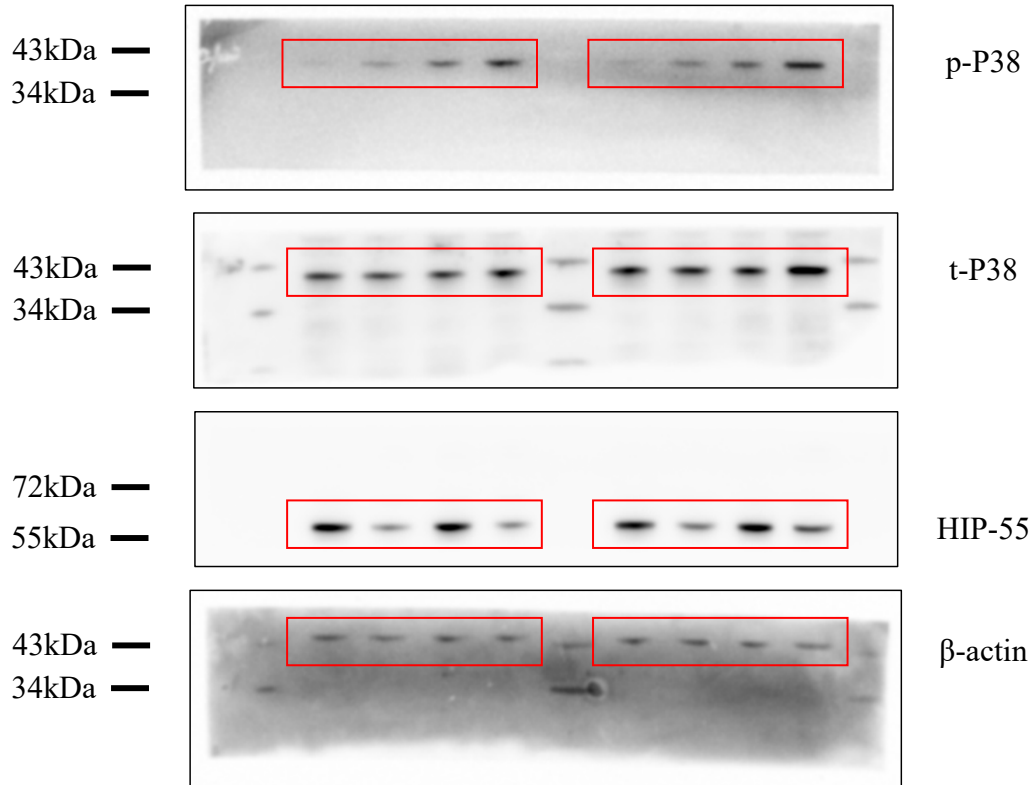
# Full unedited gel

Full unedited gel for Figure 7C

For quantification

N=2

ISO	-	-	+	+	-	-	+	+
Sh-Ctrl	+	-	+	-	+	-	+	-
Sh-HIP-55	-	+	-	+	-	+	-	+

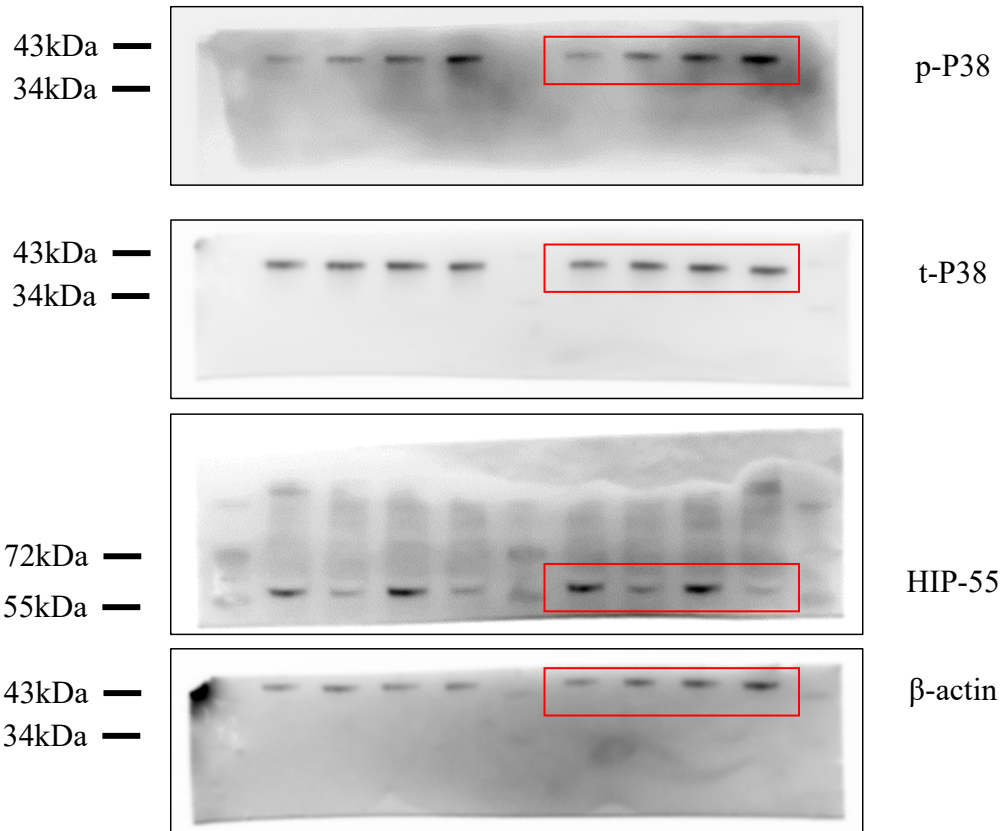


# Full unedited gel

Full unedited gel for Figure 7D

Representative  
N=1

ISO	-	-	+	+
Ad-Sh-Ctrl	+	-	+	-
Ad-Sh-HIP-55	-	+	-	+





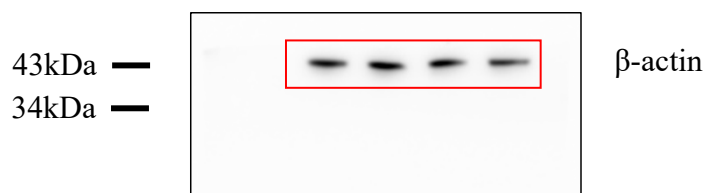
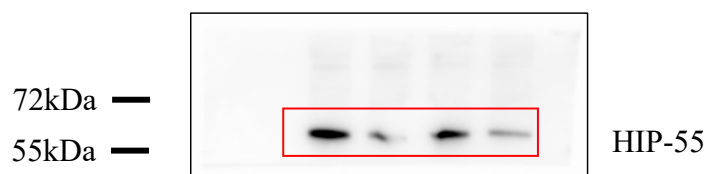
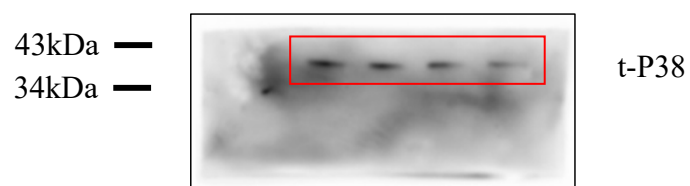
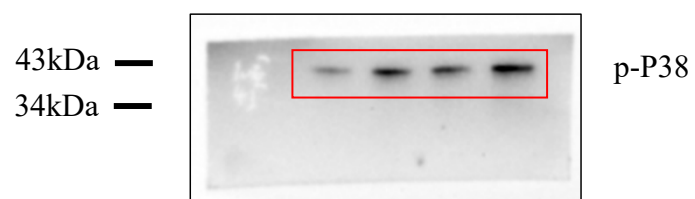
# Full unedited gel

Full unedited gel for Figure 7D

For quantification

N=1

<b>ISO</b>	-	-	+	+
<b>Ad-Sh-Ctrl</b>	+	-	+	-
<b>Ad-Sh-HIP-55</b>	-	+	-	+



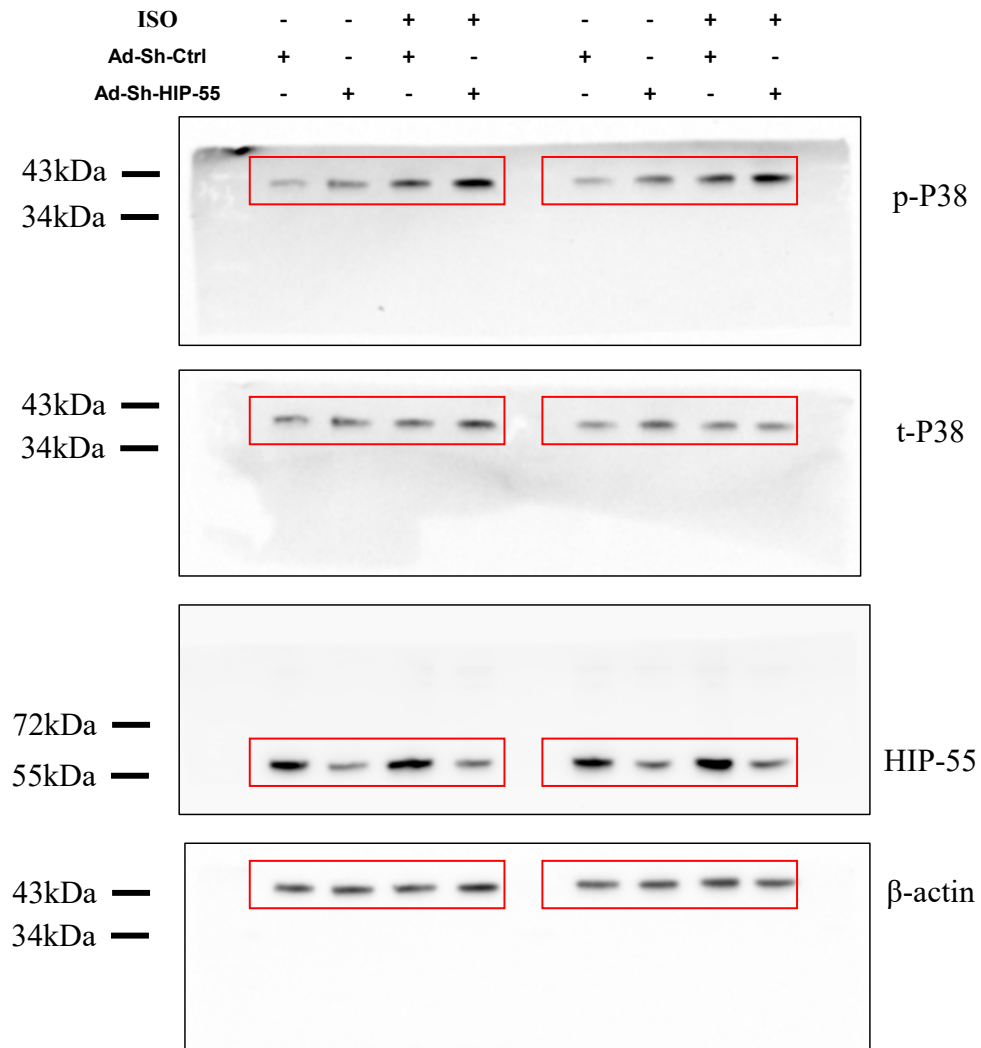


# Full unedited gel

Full unedited gel for Figure 7D

For quantification

N=2

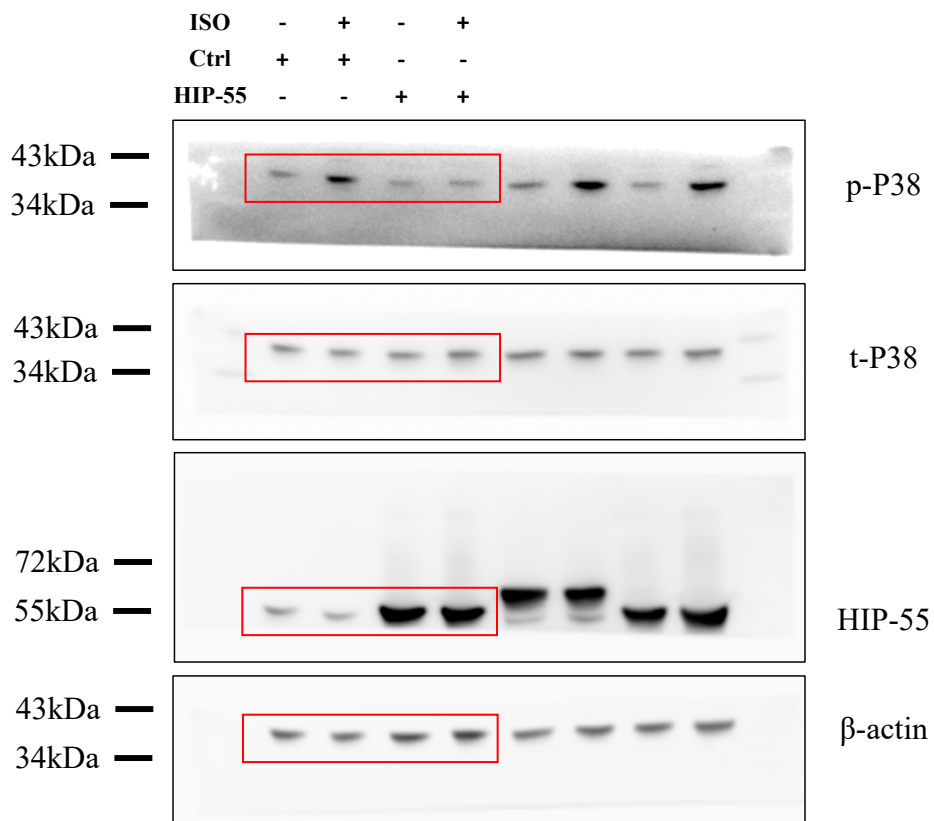


# Full unedited gel

Full unedited gel for Figure 7E

Representative

N=1

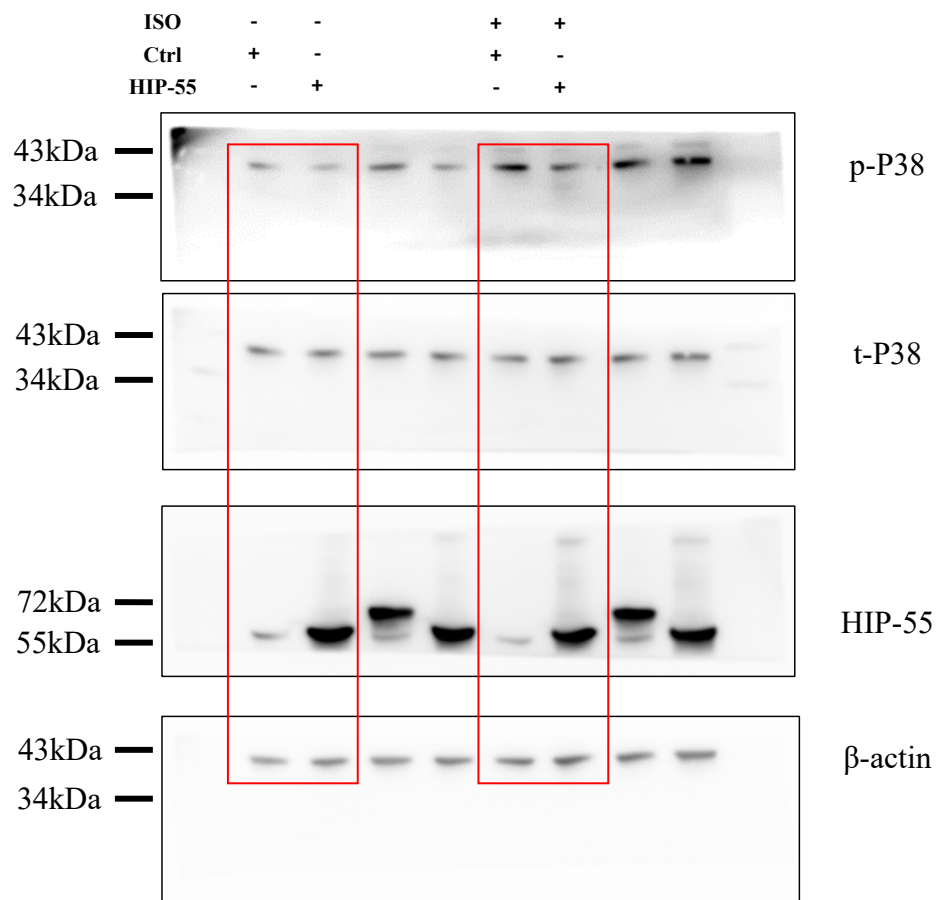


# Full unedited gel

Full unedited gel for Figure 7E

Representative

N=1



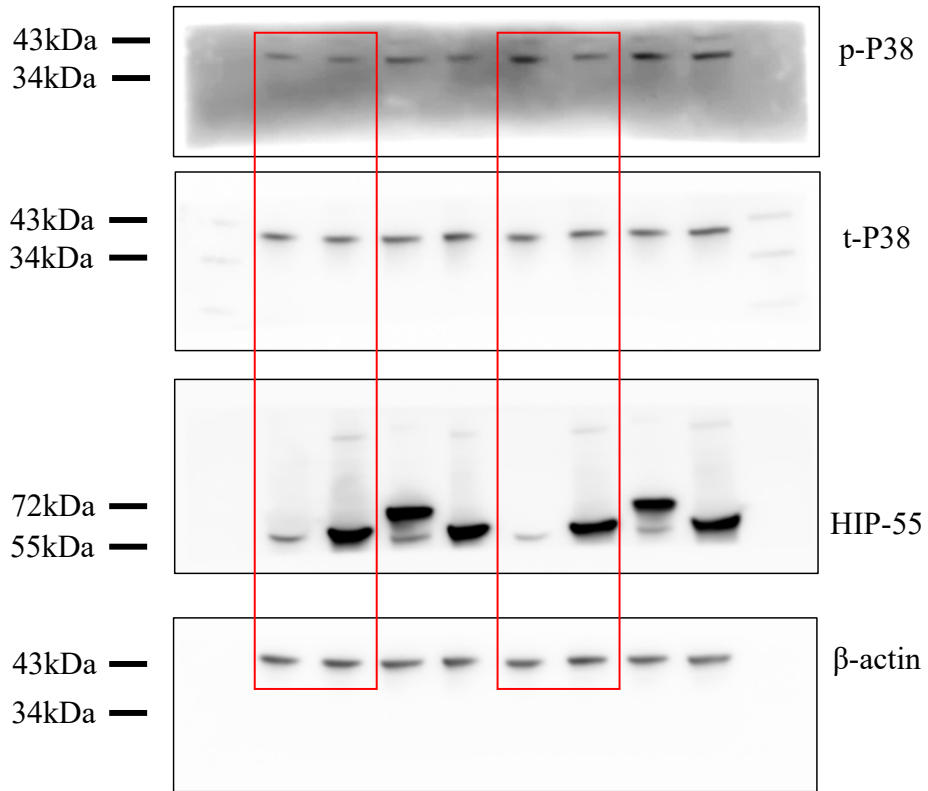
# Full unedited gel

Full unedited gel for Figure 7E

For quantification

N=1

ISO	-	-	+	+
Ctrl	+	-	+	-
HIP-55WT	-	+	-	+



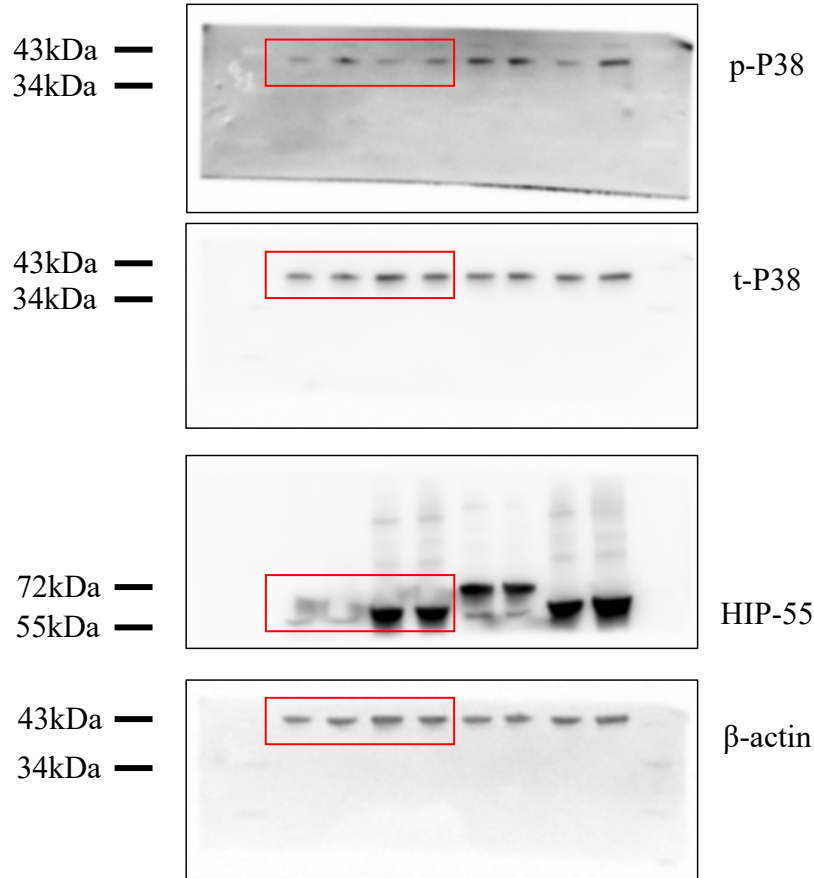
# Full unedited gel

Full unedited gel for Figure 7E

For quantification

N=1

ISO	-	+	-	+
Ctrl	+	-	+	-
HIP-55	-	-	+	+



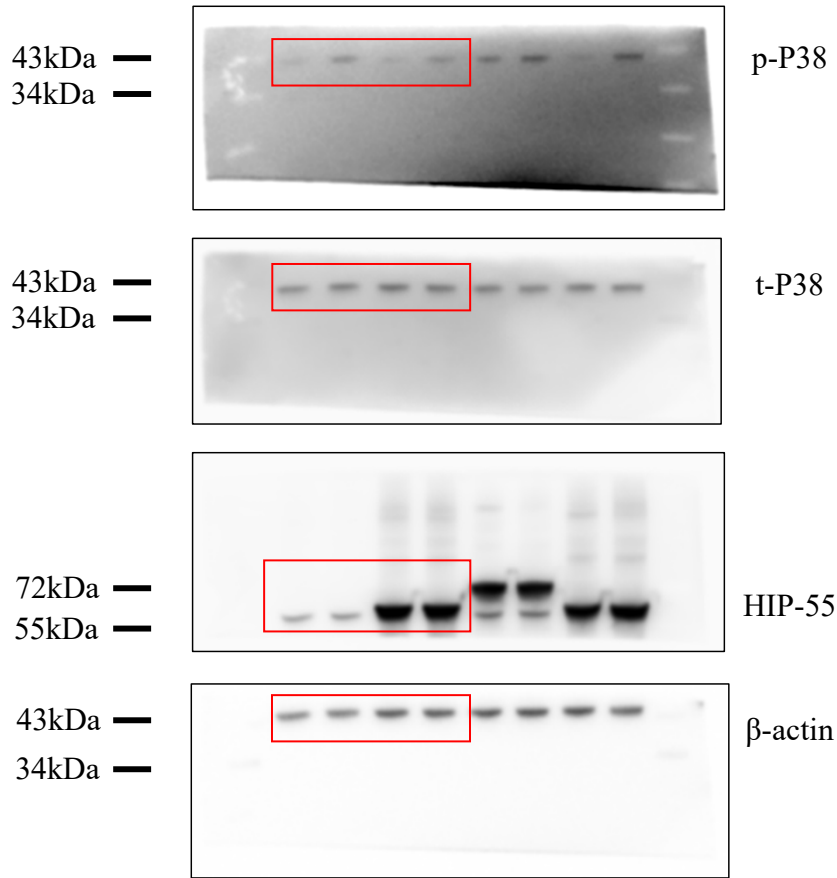
# Full unedited gel

Full unedited gel for Figure 7E

For quantification

N=1

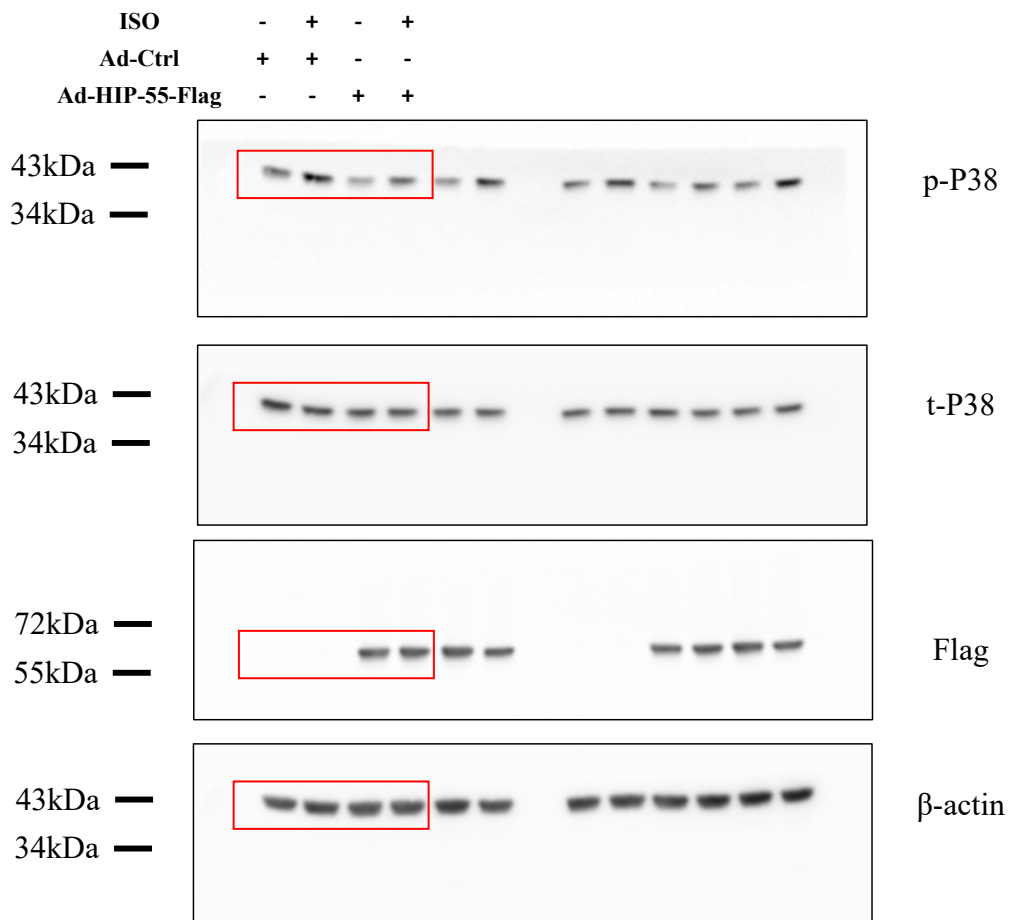
ISO	-	+	-	+
Ctrl	+	-	+	-
HIP-55	-	-	+	+



# Full unedited gel

Full unedited gel for Figure 7F

Representative  
N=1







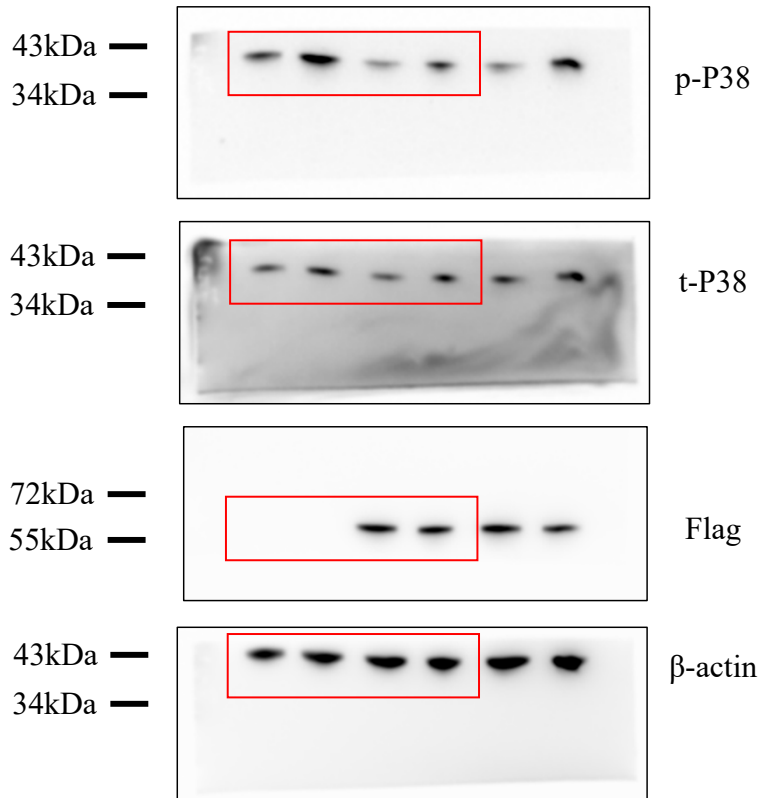
# Full unedited gel

Full unedited gel for Figure 7F

For quantification

N=1

ISO	-	+	-	+
Ad-Ctrl	+	+	-	-
Ad-HIP-55-Flag	-	-	+	+



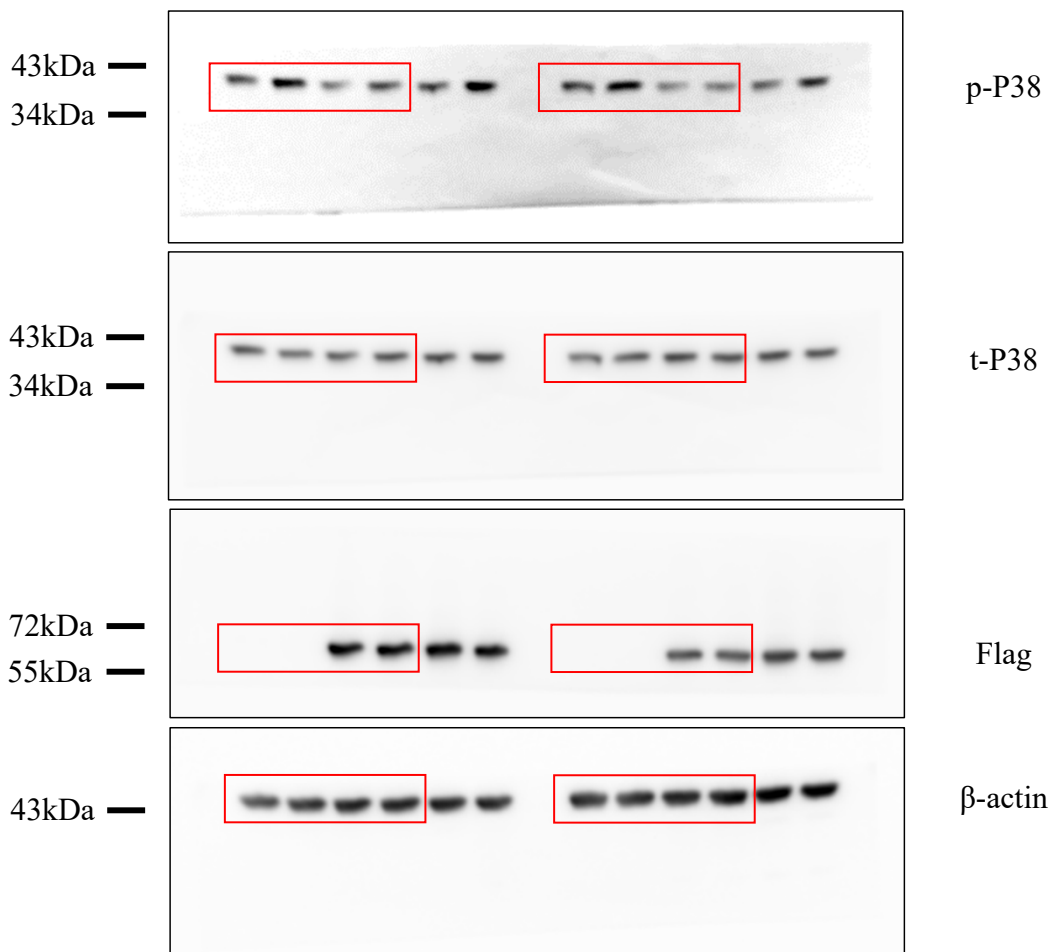
# Full unedited gel

Full unedited gel for Figure 7F

For quantification

N=2

ISO	-	+	-	+		-	+	-	+
Ad-Ctrl	+	+	-	-		+	+	-	-
Ad-HIP-55-Flag	-	-	+	+		-	-	+	+

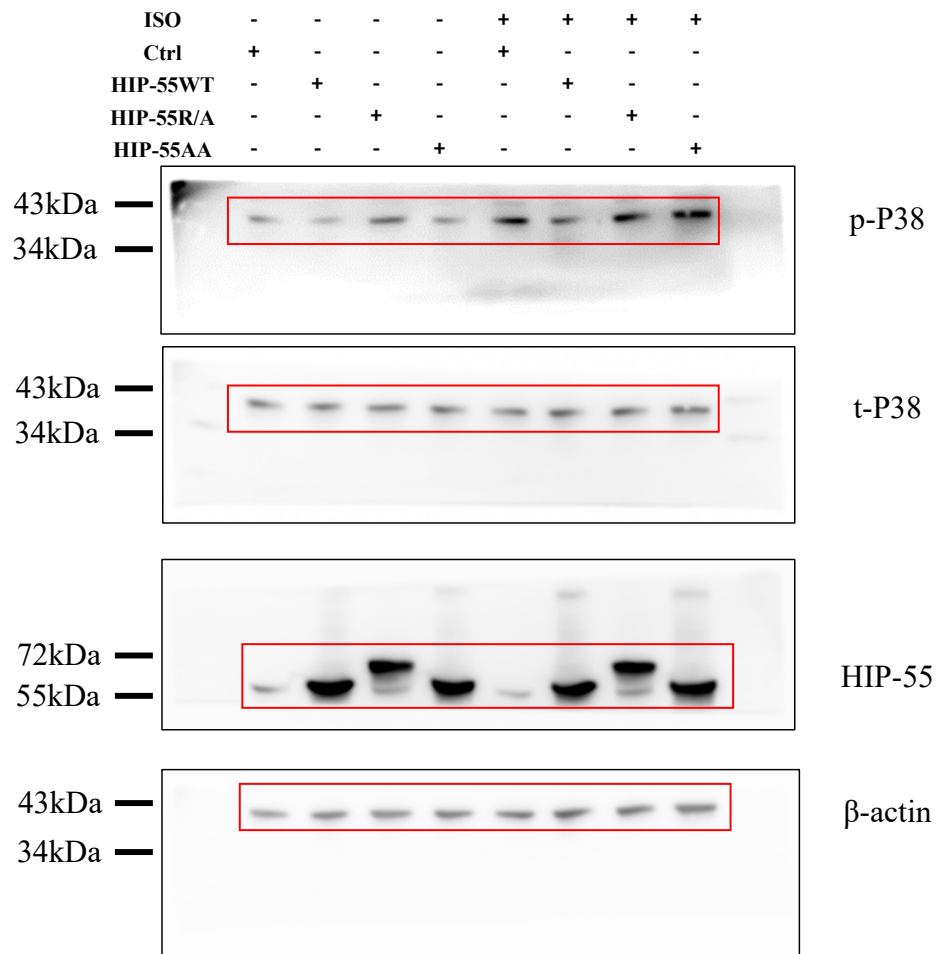


# Full unedited gel

Full unedited gel for Figure 7G

Representative

N=1



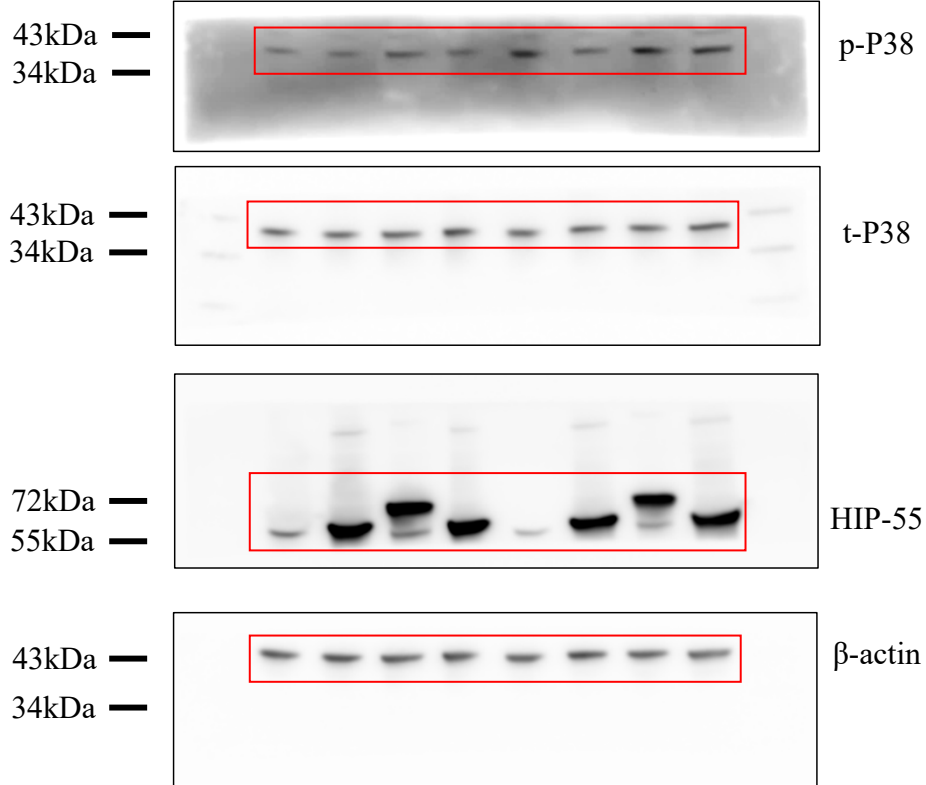
# Full unedited gel

Full unedited gel for Figure 7G

For quantification

N=1

ISO	-	-	-	-	+	+	+	+
Ctrl	+	-	-	-	+	-	-	-
HIP-55WT	-	+	-	-	-	+	-	-
HIP-55R/A	-	-	+	-	-	-	+	-
HIP-55AA	-	-	-	+	-	-	-	+

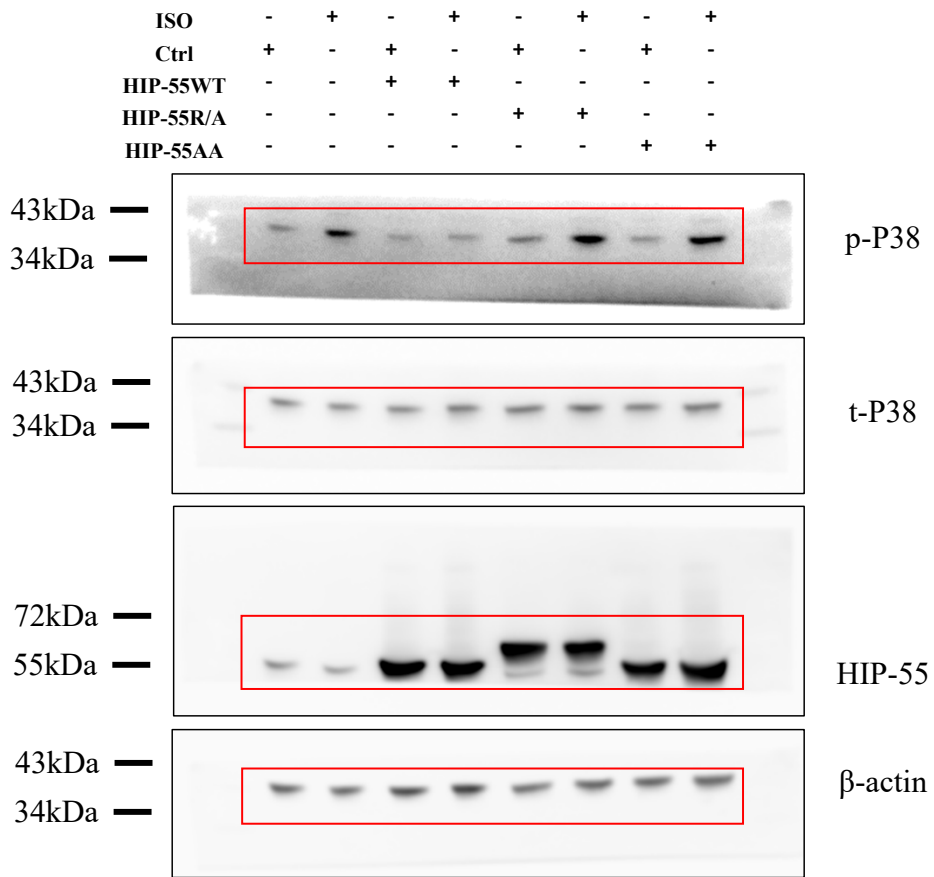


# Full unedited gel

Full unedited gel for Figure 7G

For quantification

N=1



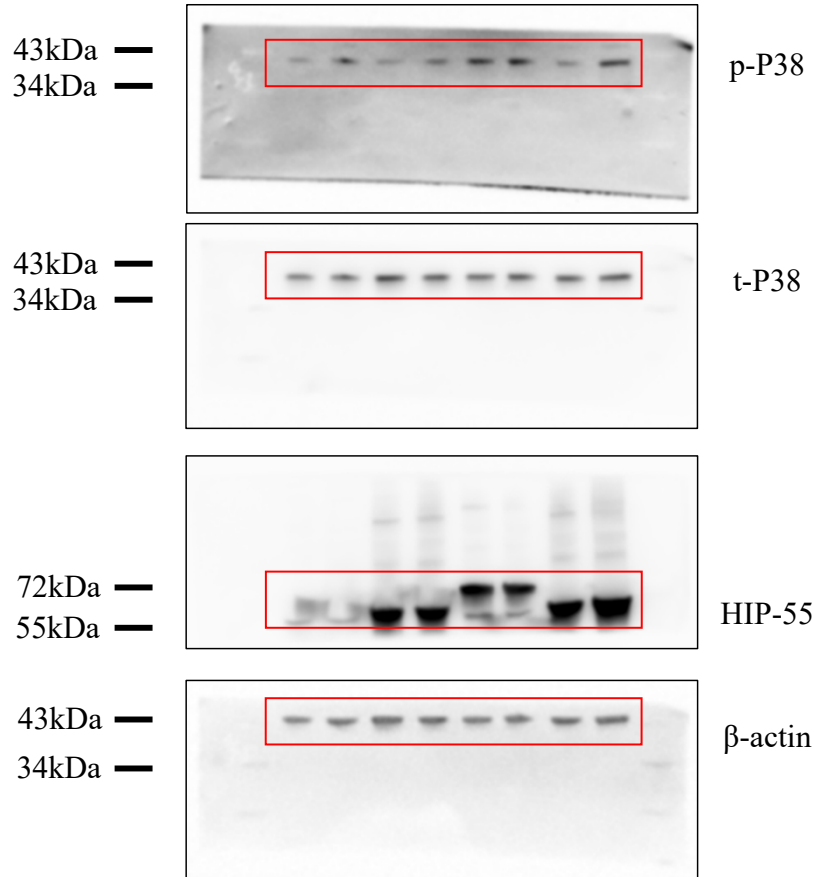
# Full unedited gel

Full unedited gel for Figure 7G

For quantification

N=1

ISO	-	+	-	+	-	+	-	+
Ctrl	+	-	+	-	+	-	+	-
HIP-55WT	-	-	+	+	-	-	-	-
HIP-55R/A	-	-	-	-	+	+	-	-
HIP-55AA	-	-	-	-	-	-	+	+



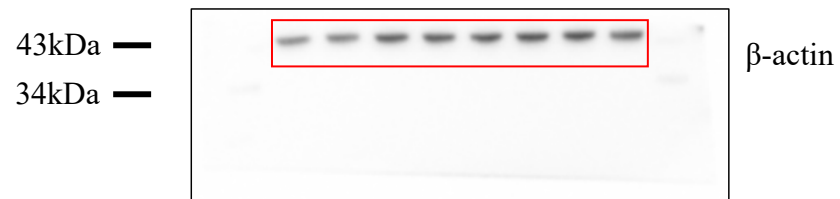
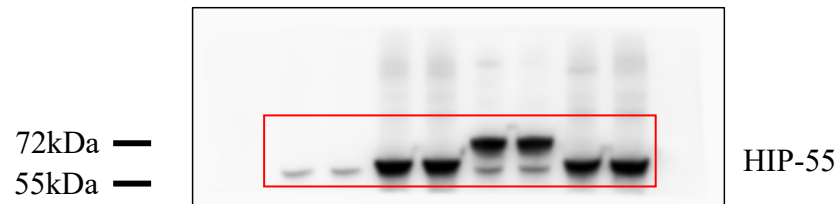
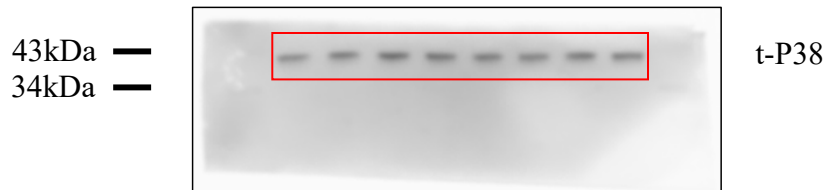
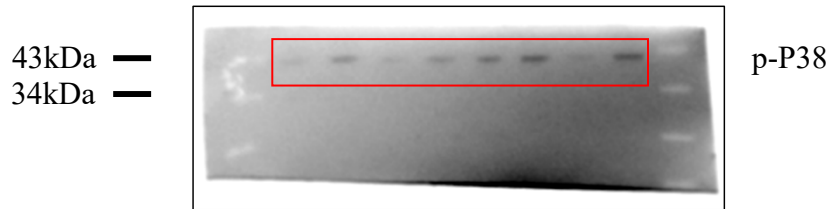
# Full unedited gel

Full unedited gel for Figure 7G

For quantification

N=1

ISO	-	+	-	+	-	+	-	+
Ctrl	+	-	+	-	+	-	+	-
HIP-55WT	-	-	+	+	-	-	-	-
HIP-55R/A	-	-	-	-	+	+	-	-
HIP-55AA	-	-	-	-	-	-	+	+

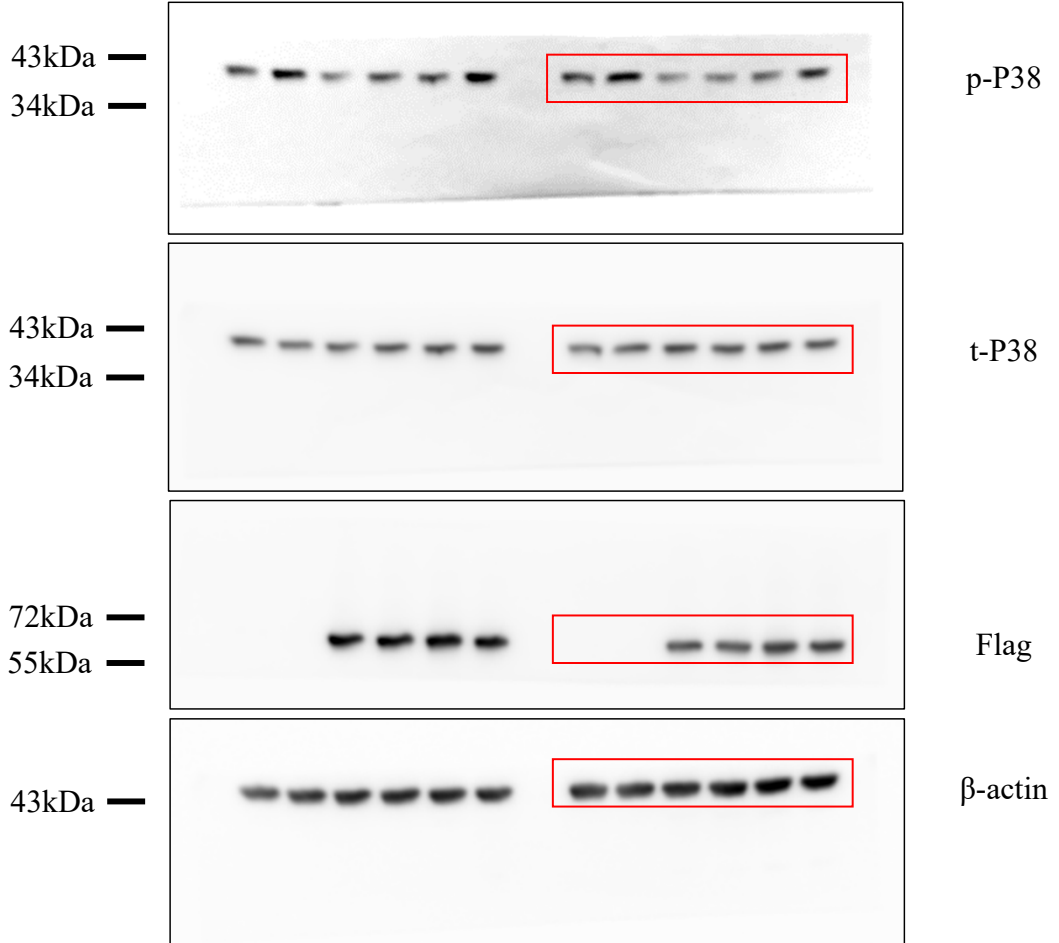


# Full unedited gel

Full unedited gel for Figure 7H

Representative  
N=1

ISO	-	+	-	+	-	+
Ad-Ctrl	+	+	-	-	-	-
Ad-HIP-55WT-Flag	-	-	+	+	-	-
Ad-HIP-55AA-Flag	-	-	-	-	+	+



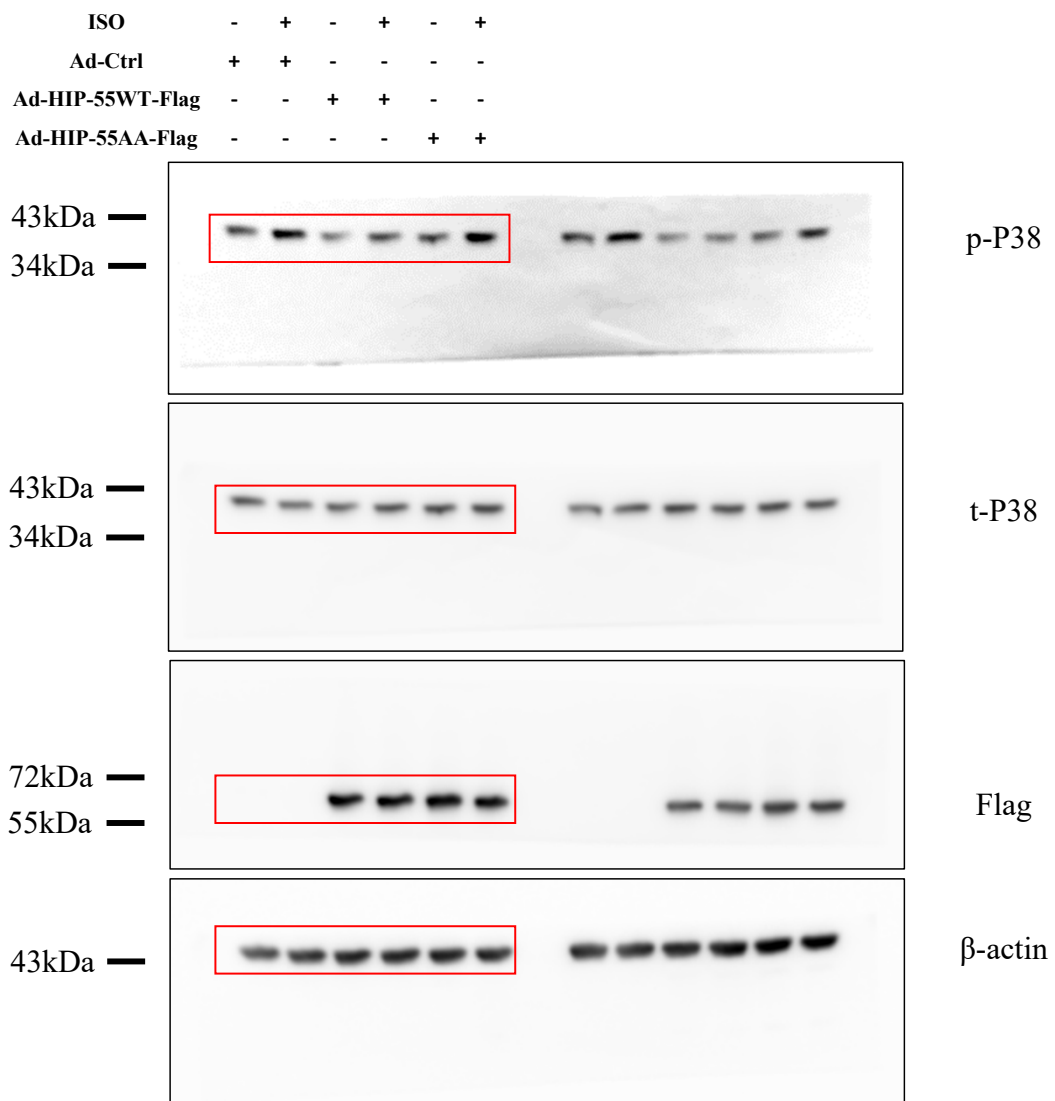


# Full unedited gel

Full unedited gel for Figure 7H

For quantification

N=1



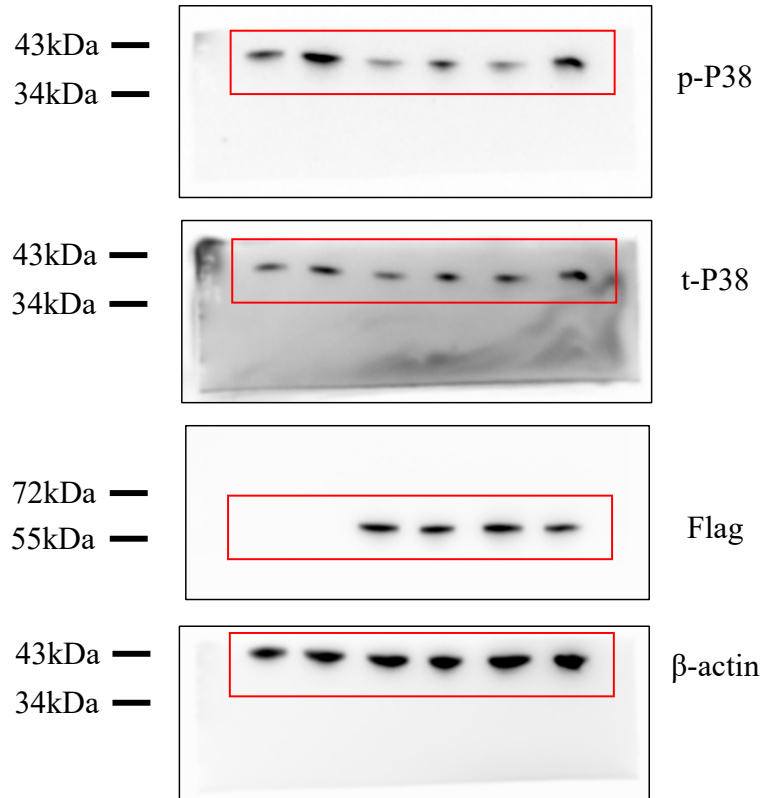
# Full unedited gel

Full unedited gel for Figure 7H

For quantification

N=1

ISO	-	+	-	+	-	+
Ad-Ctrl	+	+	-	-	-	-
Ad-HIP-55WT-Flag	-	-	+	+	-	-
Ad-HIP-55AA-Flag	-	-	-	-	+	+

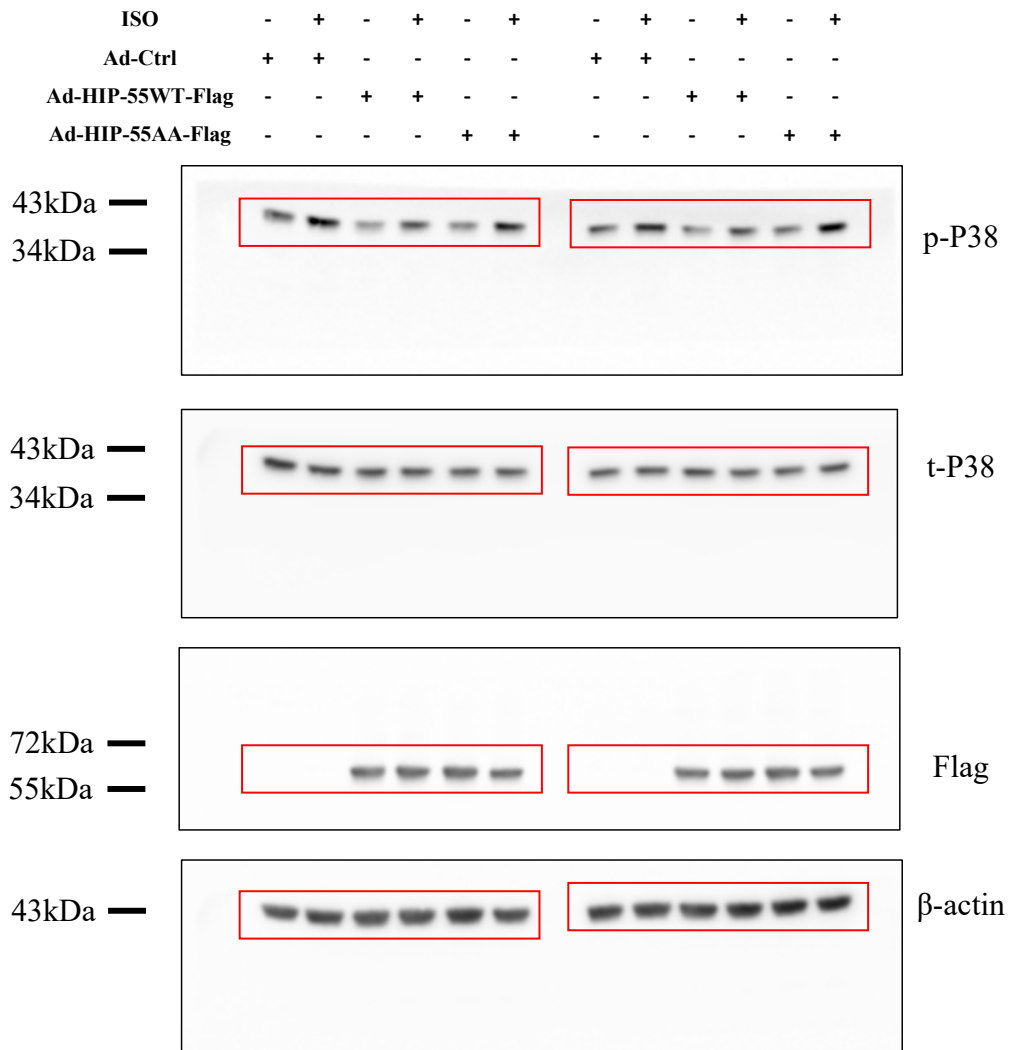


# Full unedited gel

Full unedited gel for Figure 7H

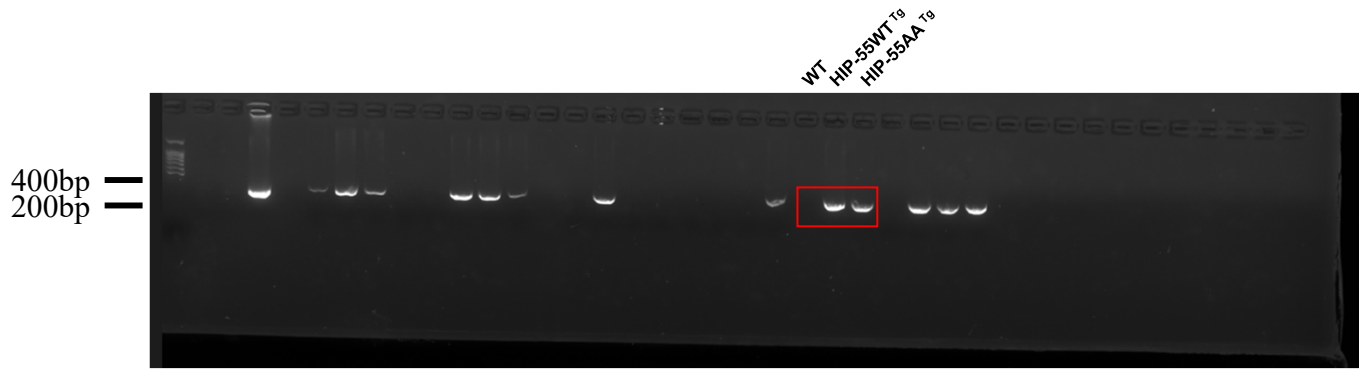
For quantification

N=2

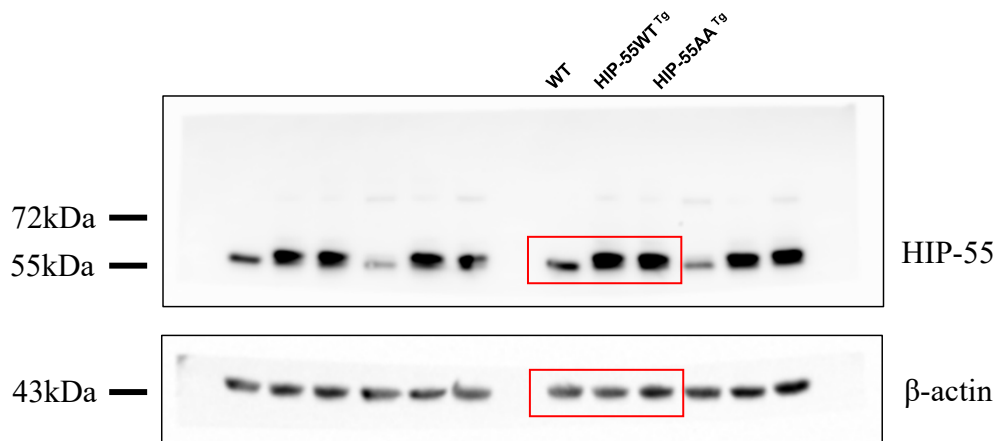


# Full unedited gel

Full unedited gel for Figure 8A



Full unedited gel for Figure 8B

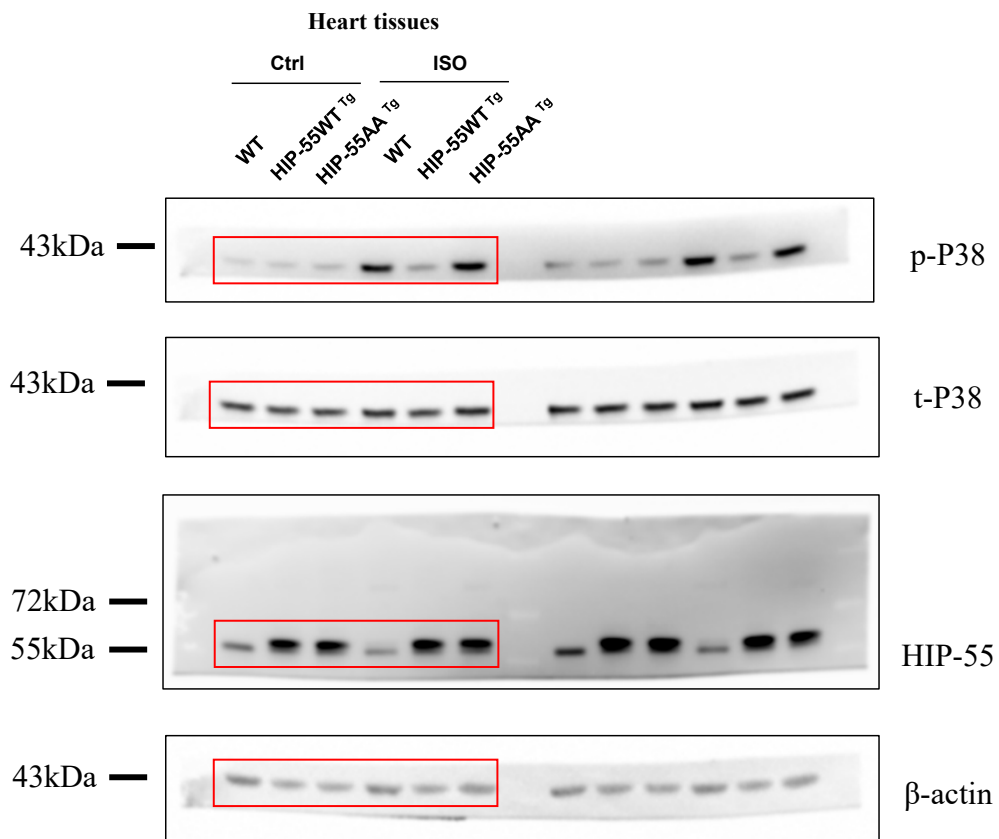


# Full unedited gel

Full unedited gel for Figure 8D

Representative

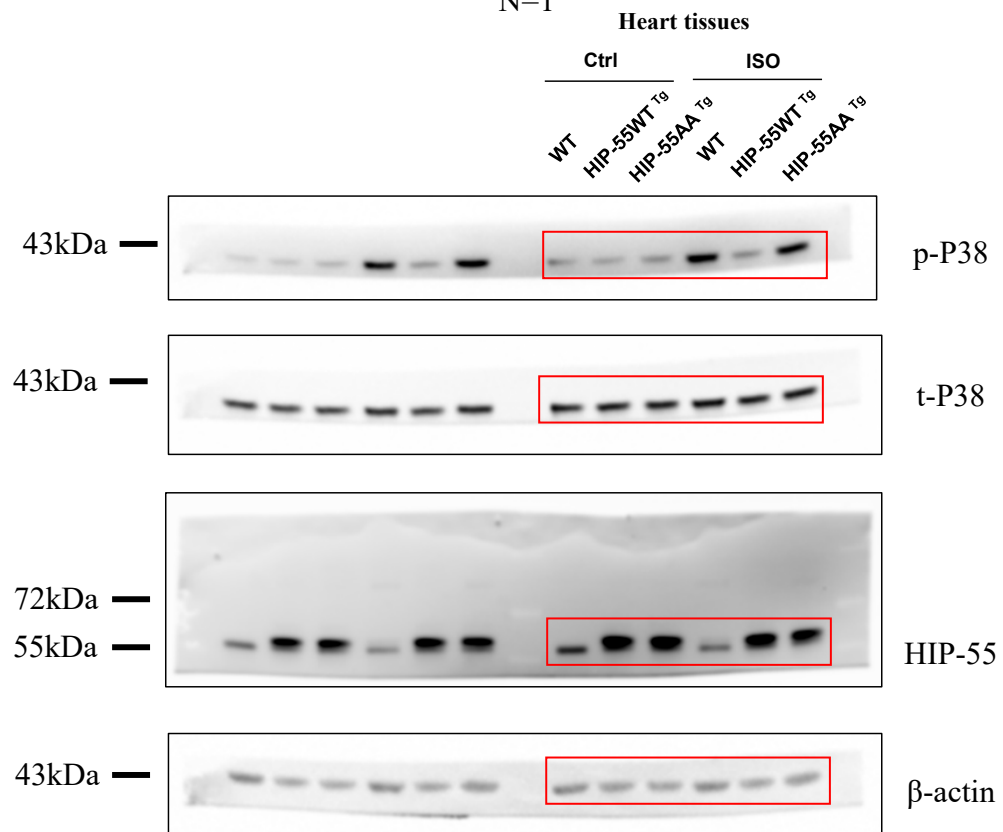
N=1



Full unedited gel for Figure 8D

For quantification

N=1

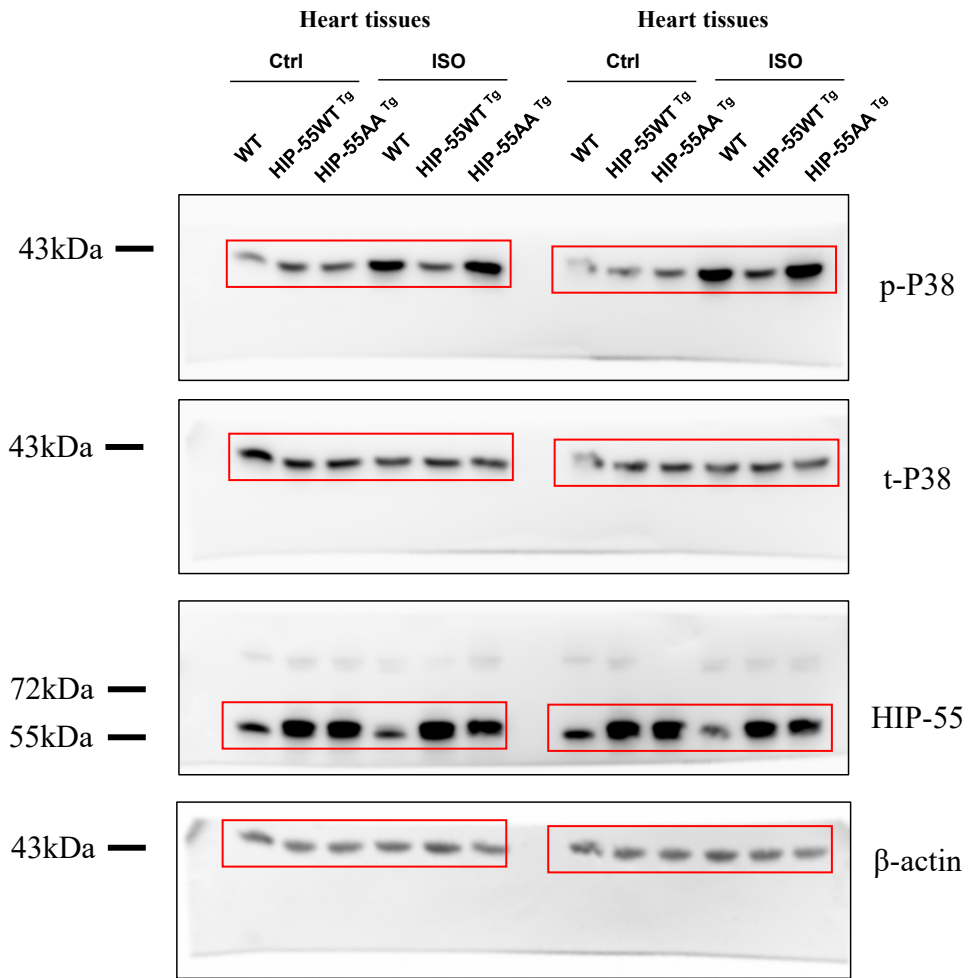


# Full unedited gel

Full unedited gel for Figure 8D

For quantification

N=2



# Full unedited gel

Full unedited gel for Figure 8D

For quantification  
N=2

