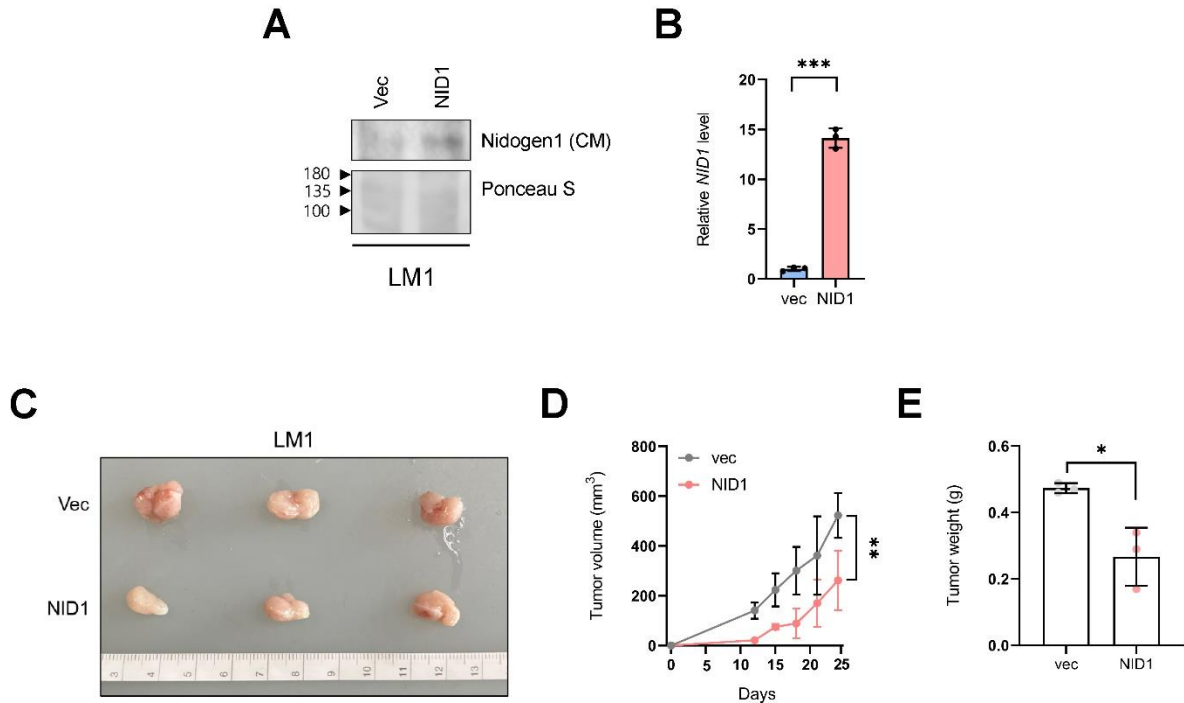


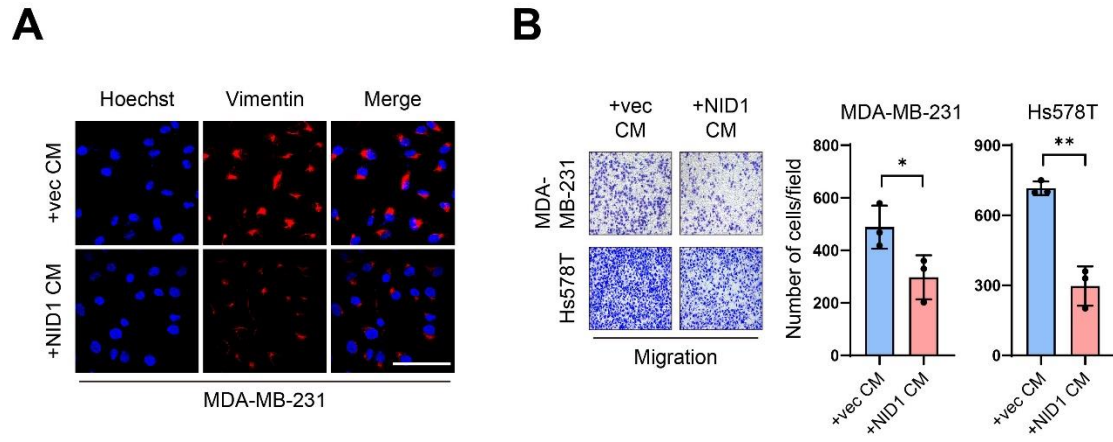
Supplementary figures and legends

Figure.S1 NID1 reduced tumor growth and size (continued from Fig.1)



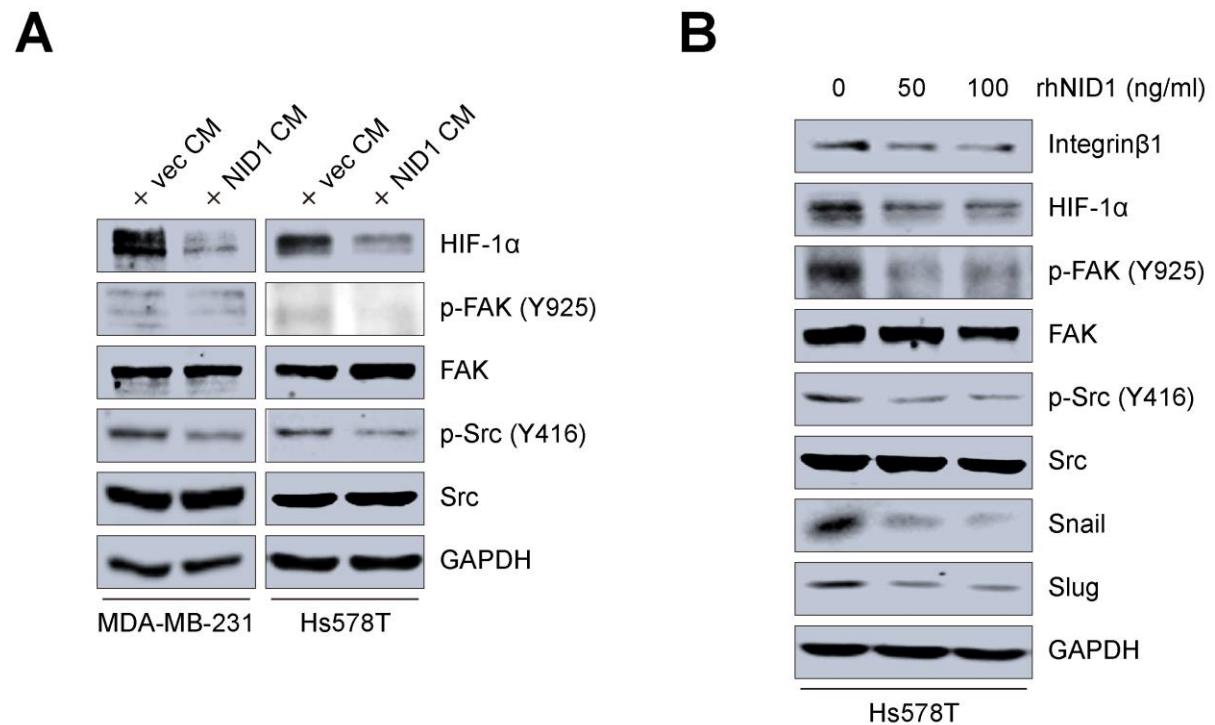
(A) To confirm the overexpression of NID1, western blot analysis was conducted. Ponceau S staining was employed as a loading control for the conditioned medium. **(B)** RT-qPCR analysis showed NID1 mRNA level. Each value was normalized with GAPDH. Mean $\pm$ SD ($n = 3$). **(C)** Representative images showing xenograft tumors of MDA-MB-231 LM1 control and NID1-overexpressing cells at 24 days post-injection. **(D)** In vivo tumor growth curve from a xenograft mouse. **(E)** The tumor weights of each xenograft mouse were quantified 24 days post-injection. The data in D and E are presented as mean $\pm$ SD ($n = 3$). P values in B, D and E were calculated using Student's t test (* $P < 0.05$; ** $P < 0.005$; *** $P < 0.0005$).

Figure.S2 NID1 downregulated cell migration and EMT marker expression (continued from Fig.2)



(A) Immunofluorescence analysis showed decreased expression of the mesenchymal marker vimentin after treatment with conditioned medium (CM) of MDA-MB-231 NID1-overexpressing cell line (scale bar = 100 μ m). (B) Transwell migration assays were performed with the MDA-MB-231 and Hs578T after treatment with CM of MDA-MB-231 NID1-overexpressing cell line.

Figure.S3 NID1 suppressed the FAK/Src/NFκB p65 signaling axis via integrinβ1 downregulation
(continued from Fig.5).



(A-B) Western blot analysis of total cell lysates with the indicated antibodies; GAPDH was used as the loading control.

Supplementary table 1

Antigen	Manufacturer	Catalogue no.	Dilution
β -actin	Genetex	GTX109639	1:1000
GAPDH antibody	Santa Cruz Biotechnology	sc-47724	1:2000
Glut3 antibody	Santa Cruz Biotechnology	sc-74497	1:200
Integrin β 1 antibody	Santa Cruz Biotechnology	sc-59829	1:200
LDHA antibody	Santa Cruz Biotechnology	sc-137243	1:5000
LDHB antibody	Santa Cruz Biotechnology	sc-100775	1:5000
NF κ B p65 antibody	Santa Cruz Biotechnology	sc-8008	1:2000
Nidogen-1 antibody	Santa Cruz Biotechnology	sc-133175	1:500
Ub antibody	Santa Cruz Biotechnology	sc-8017	1:500
FAK antibody	Cell Signaling Technology	#3285	1:1000
HIF-1 α antibody	Cell Signaling Technology	#36169	1:1000
p-FAK (Y925) antibody	Cell Signaling Technology	#3284	1:500
PKM2 antibody	Cell Signaling Technology	#3198	1:3000
p-NF κ B p65 (S536) antibody	Cell Signaling Technology	#3033	1:2000
p-Src (Y416) antibody	Cell Signaling Technology	#2101	1:2000
Src antibody	Cell Signaling Technology	#2109	1:2000
Snail antibody	Cell Signaling Technology	#3879	1:1000
Slug antibody	Cell Signaling Technology	#9585	1:1000
Fibronectin antibody	Abcam	ab6328	1:1000

Supplementary table 2

Gene	Fw	Rev
ZEB1	GGG CCT GAA GCT CAG GCA GAT GA	CTC TGG TCC TCT TCA GGT GCC TC
VIM	AAA GTG TGG CTG CCA AGA ACC TGC	ACT CAG TGG ACT CCT GCT TTG CCT
SNAI1	CAA TCG GAA GCC TAA CTA CAG CGA	AGT CCC AGA TGA GCA TTG GCA G
SNAI2	AGG GCT CAT CTG CAG ACC CAT TCT	ACT CAG TGT GCT ACA CAG CAG CCA
TWIST1	CAG TCG CTG AAC GAG GCG TTC	ATC TTG GAG TCC AGC TCG TCG CT
HIF1A	ACC ACC TAT GAC CTG CTT GGT GCT G	CAT ATC CAG GCT GTG TCG ACT GAG G
LDHA	GTG GGT CCT TGG GGA ACA TGG AG	GTC CAA TAG CCC AGG ATG TGT AGC C
LDHB	CCG TCA GCA AGA AGG GGA GAG TCG	CCA ATC ACG CGG TGT TTG GGT AAT CC
PKM2	ATT ATT TGA GGA ACT CCG CCG CCT	ATT CCG GGT CAC AGC AAT GAT GG
HK2	TGC GCA ACG TGG AAC TGG TG	GCT TGC CCG GGT TGA GTG AAA G
VEGFA	AAG GAG GAG GGC AGA ATC AT	ATC TGC ATG GTG ATG TTG GA
ITGB1	AAA AGA AGG GTT GCC CTC CAG	GCT CCC CTG ATC TTA ATC GCA
GAPDH	GGC AAA TTC CAT GGC ACC GTC	GCC AGC ATC GCC CCA CTT GAT
NID1	TTA TCC CCC TCC ATC ACT CA	CTC TTG CCT TTC TGG TCT GG

Fig.1D

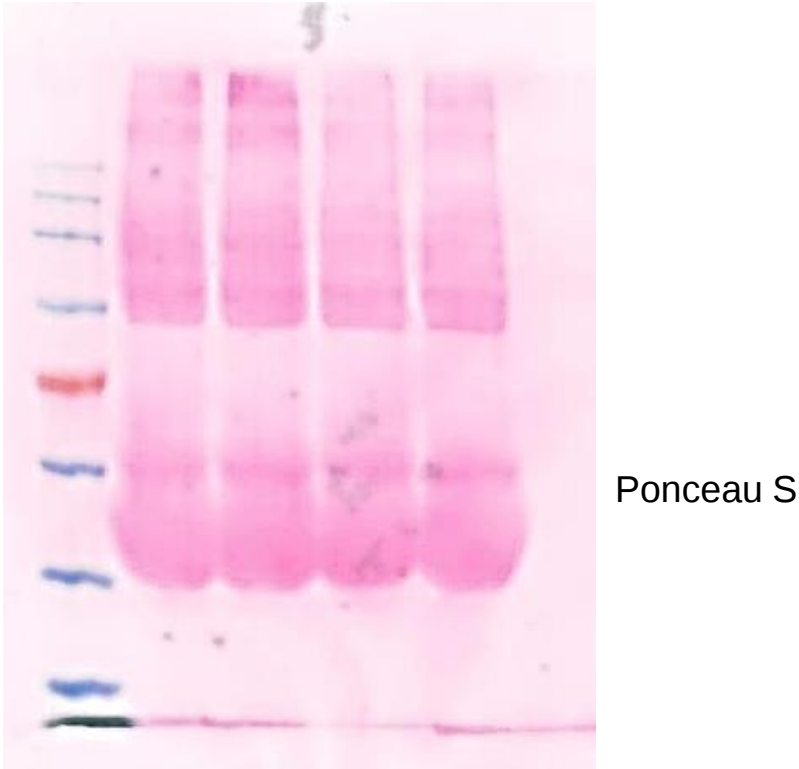
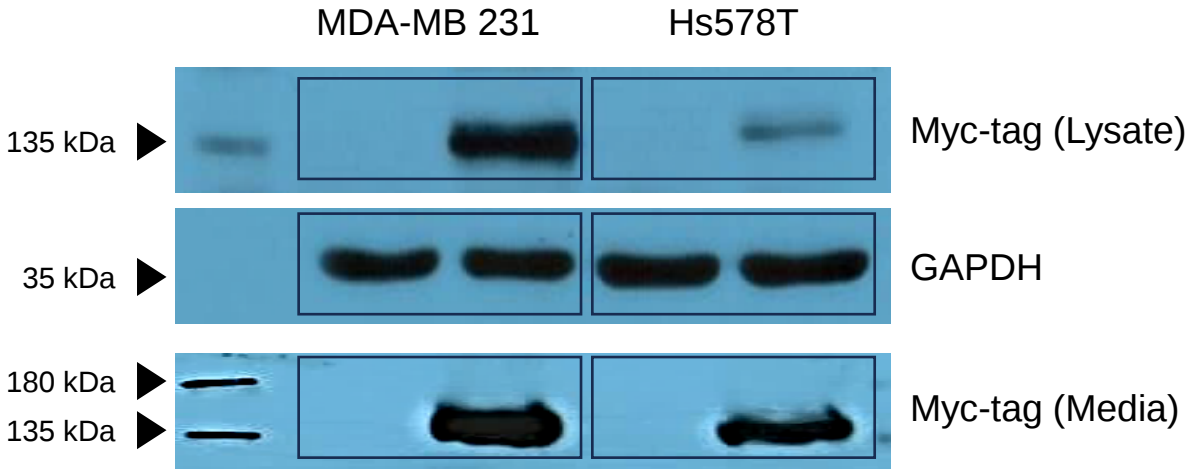


Fig.2D

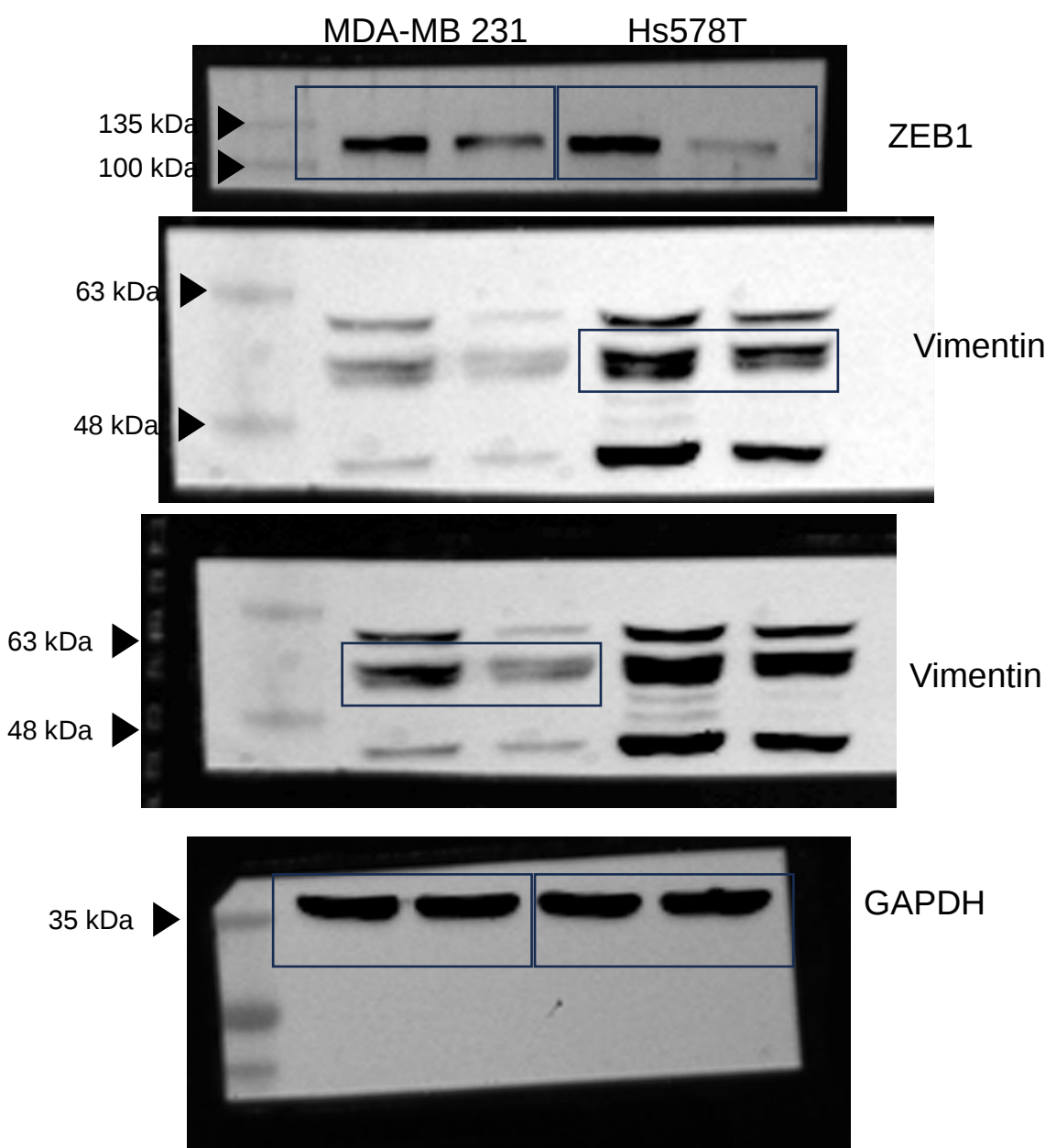
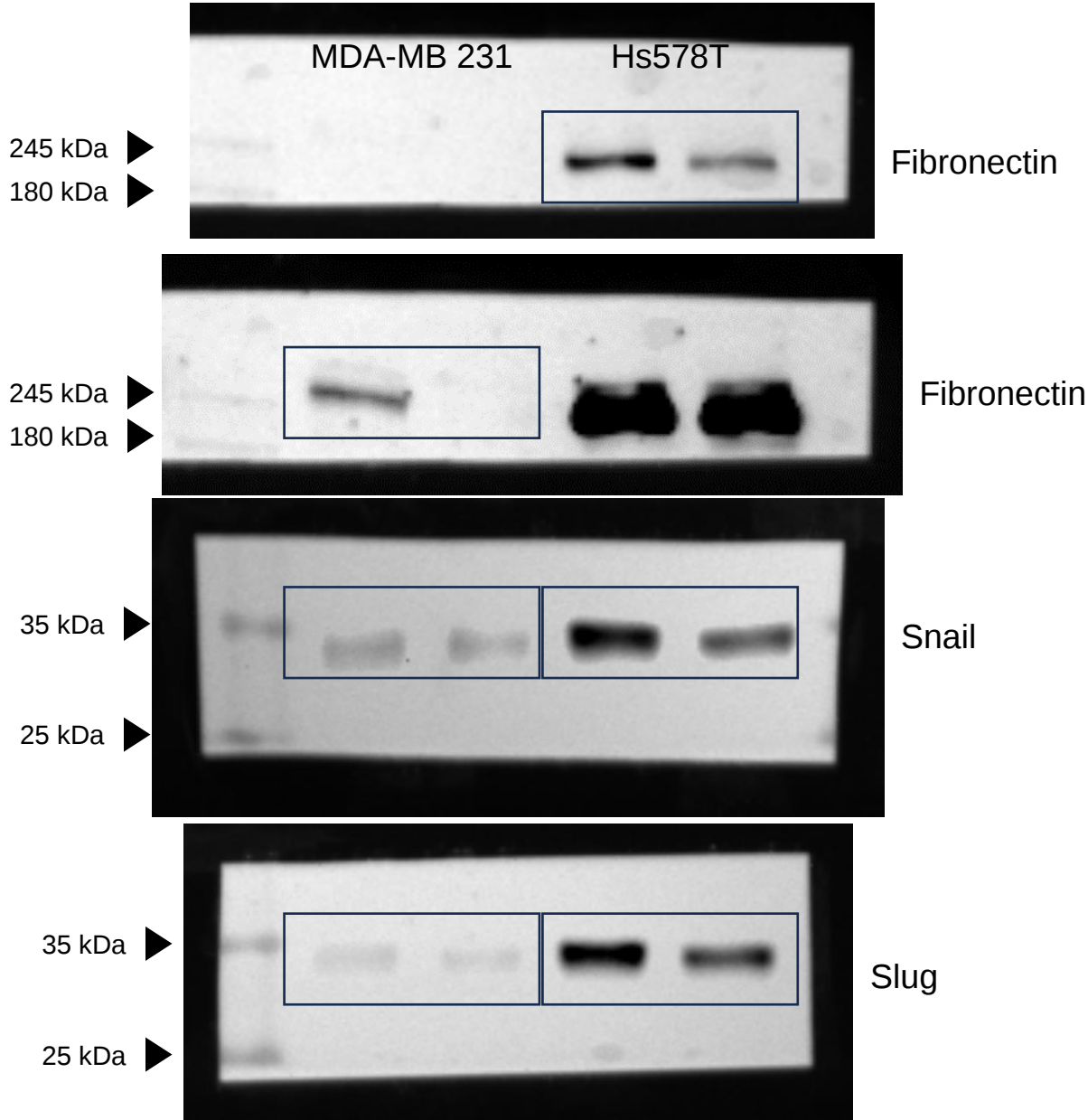


Fig.3G

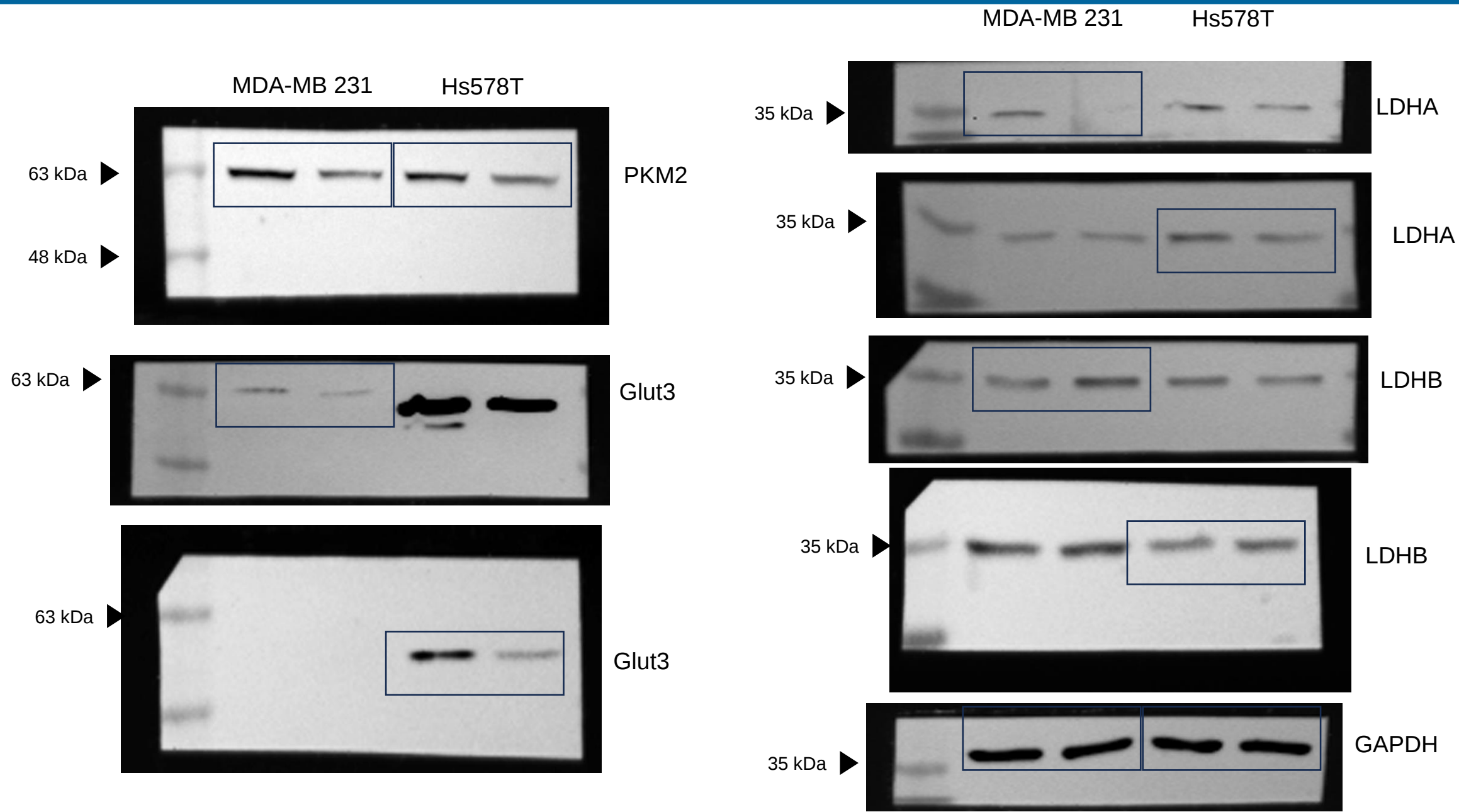


Fig.4A

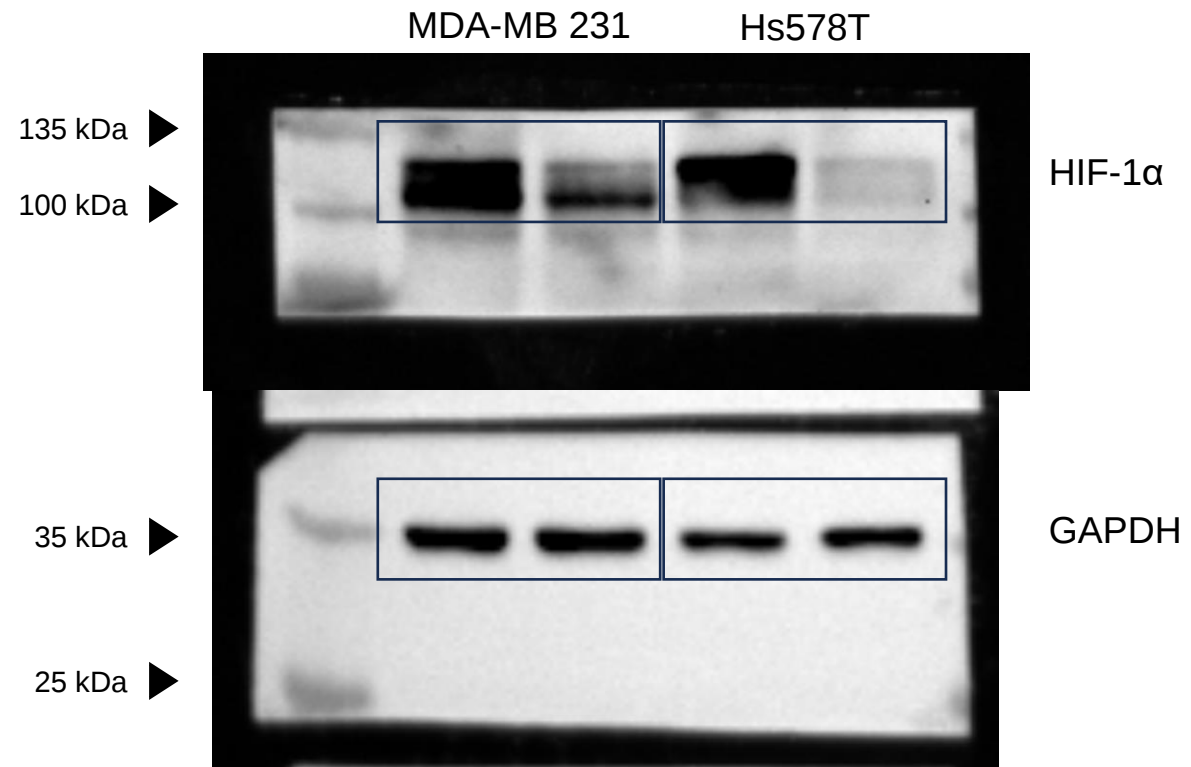


Fig.5A,C&D

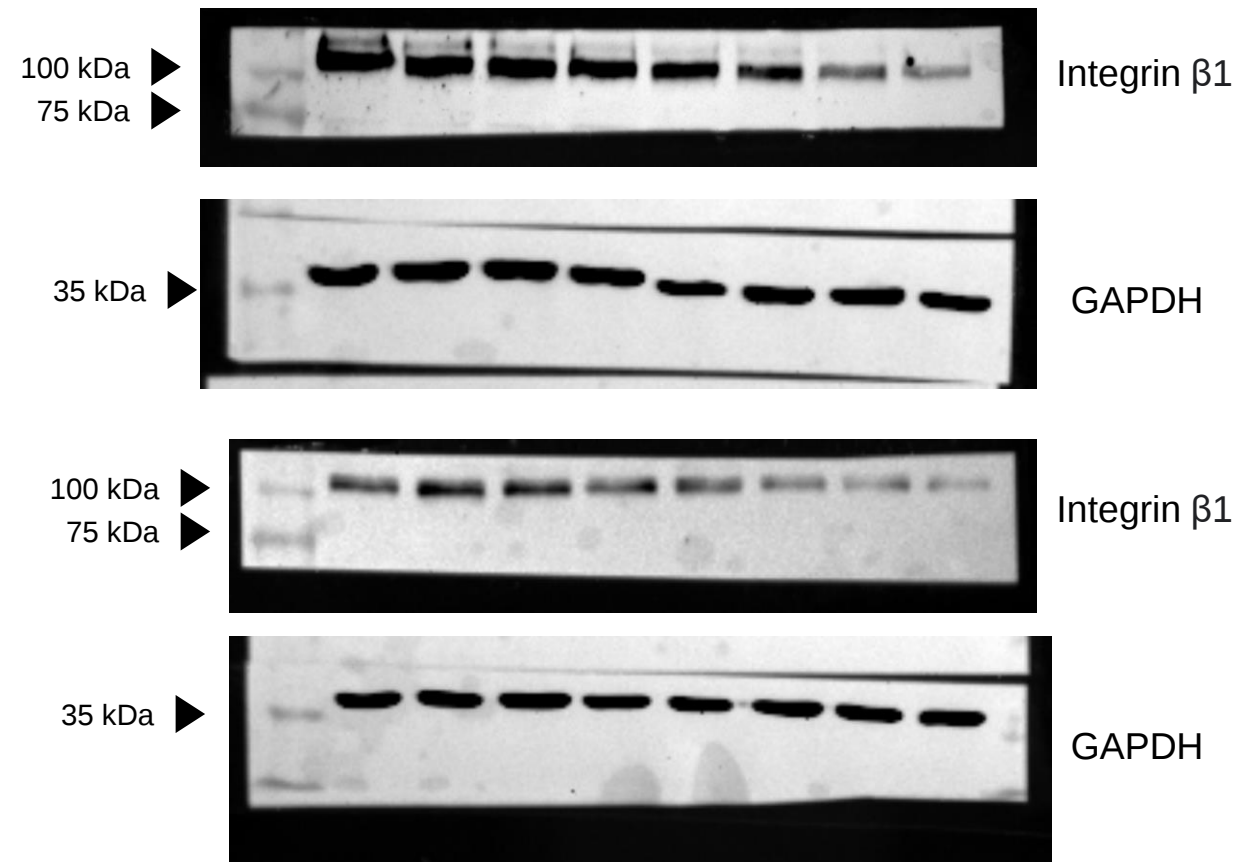
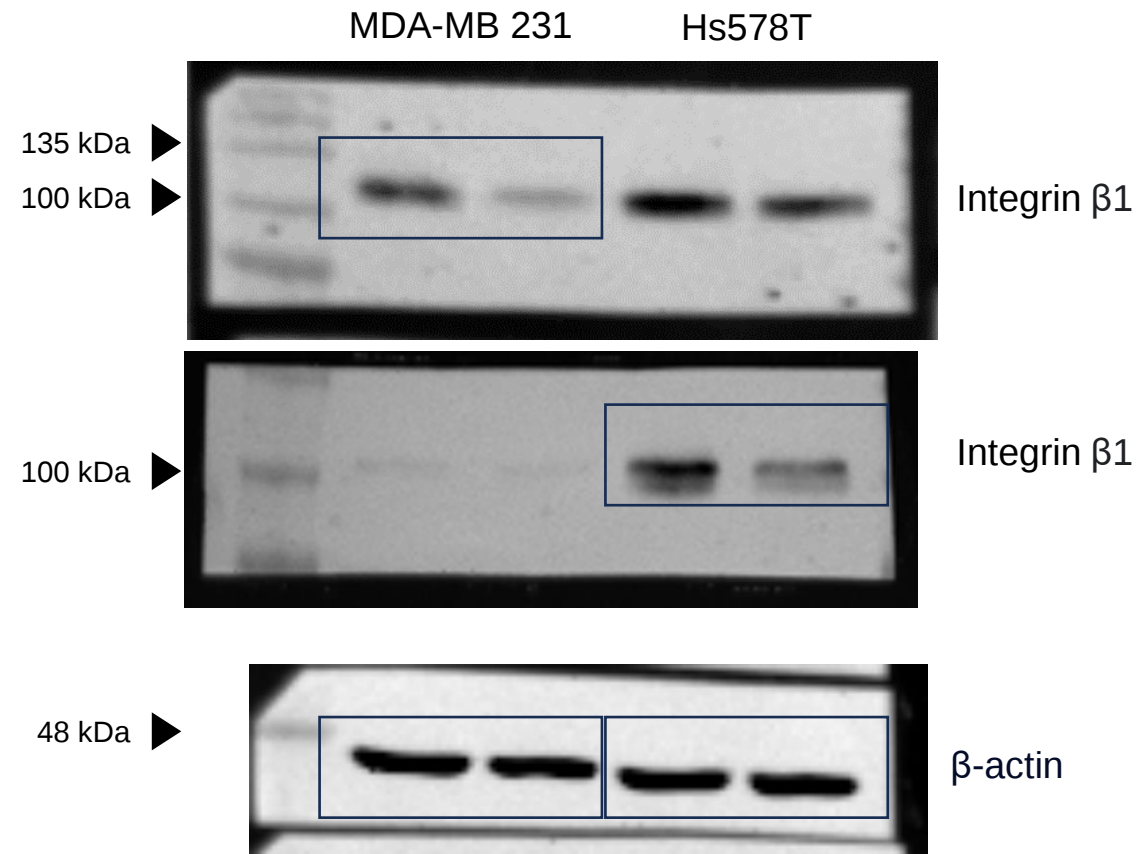


Fig.5E

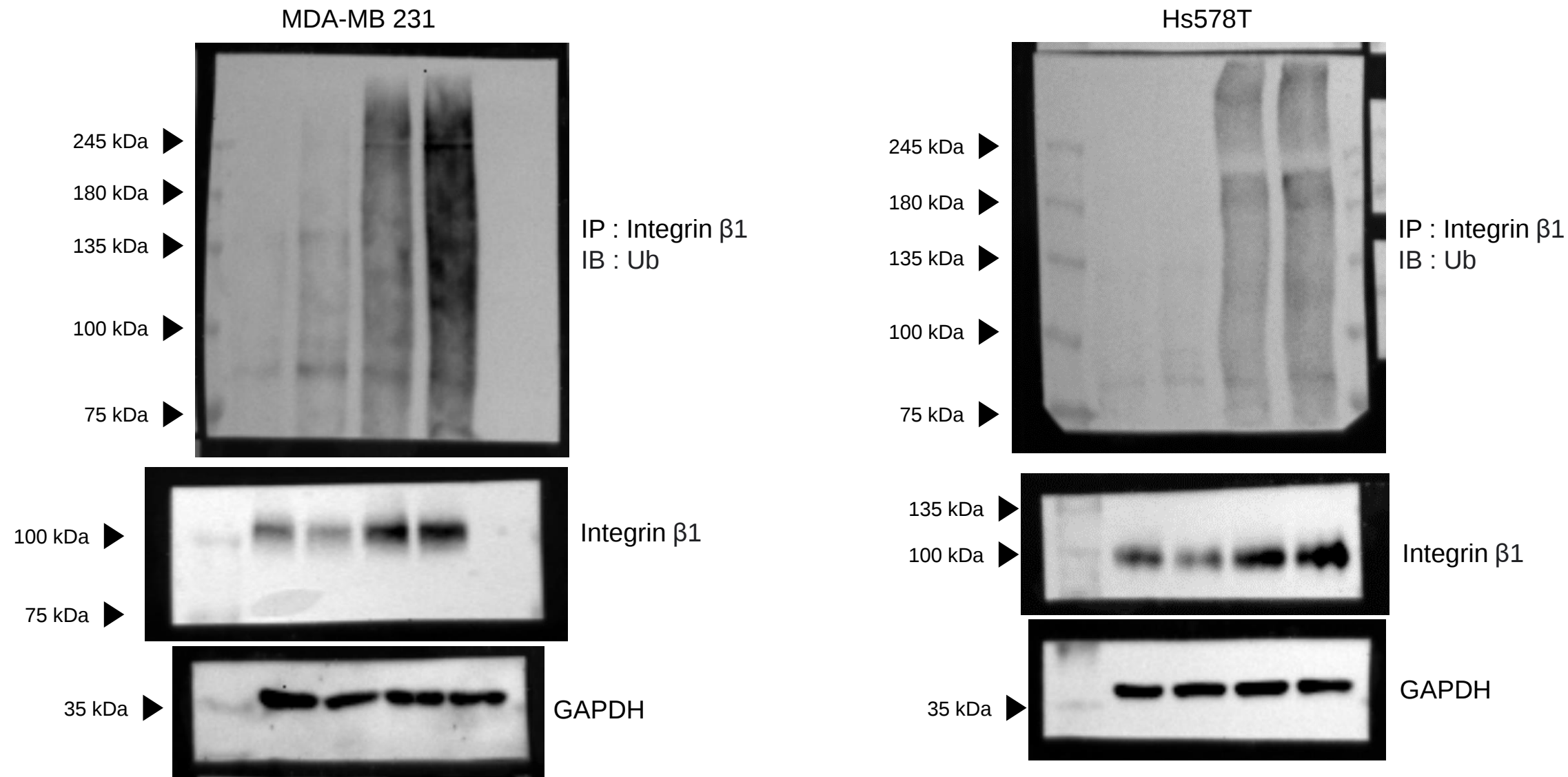


Fig.5F

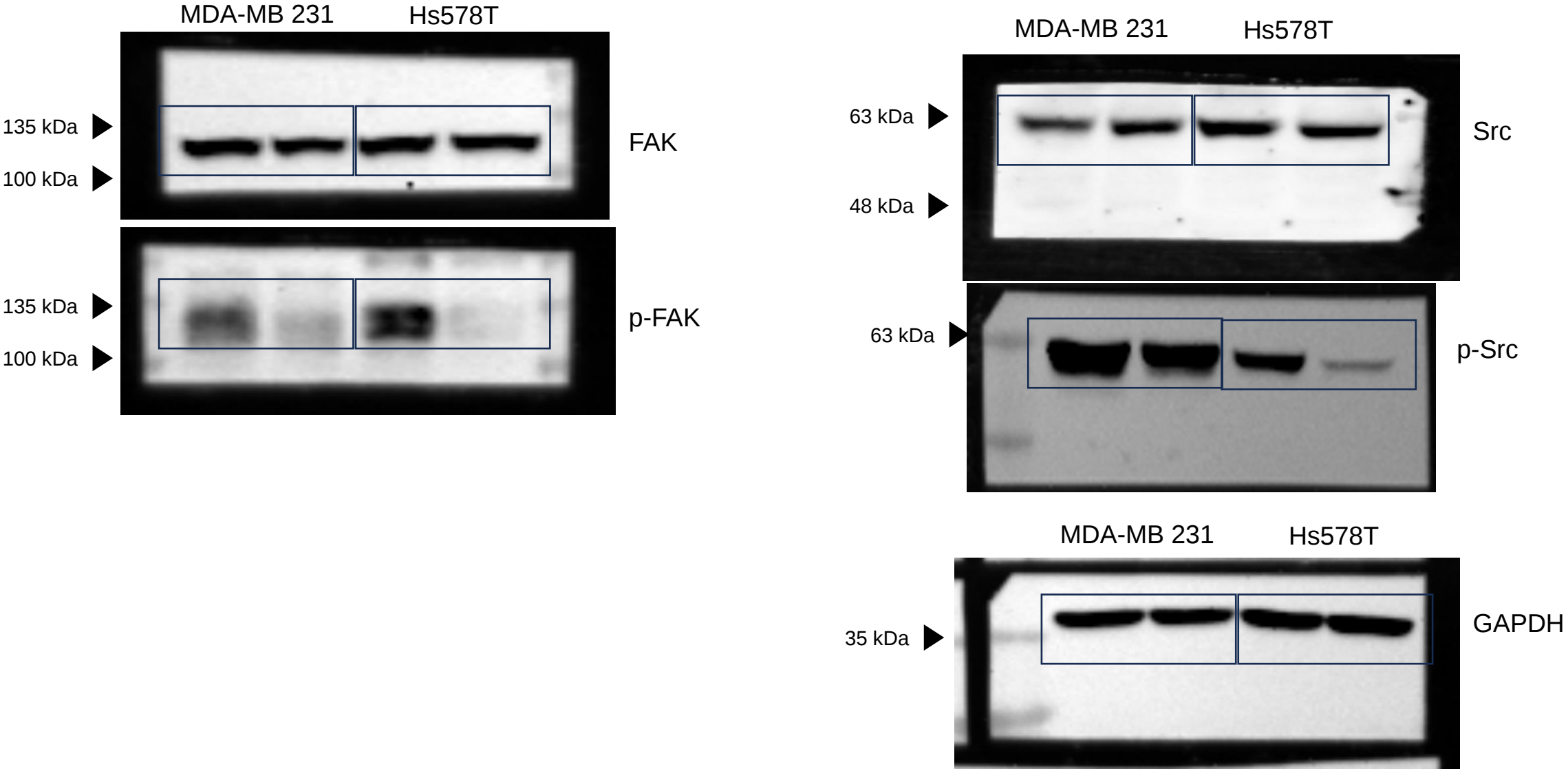


Fig.5F

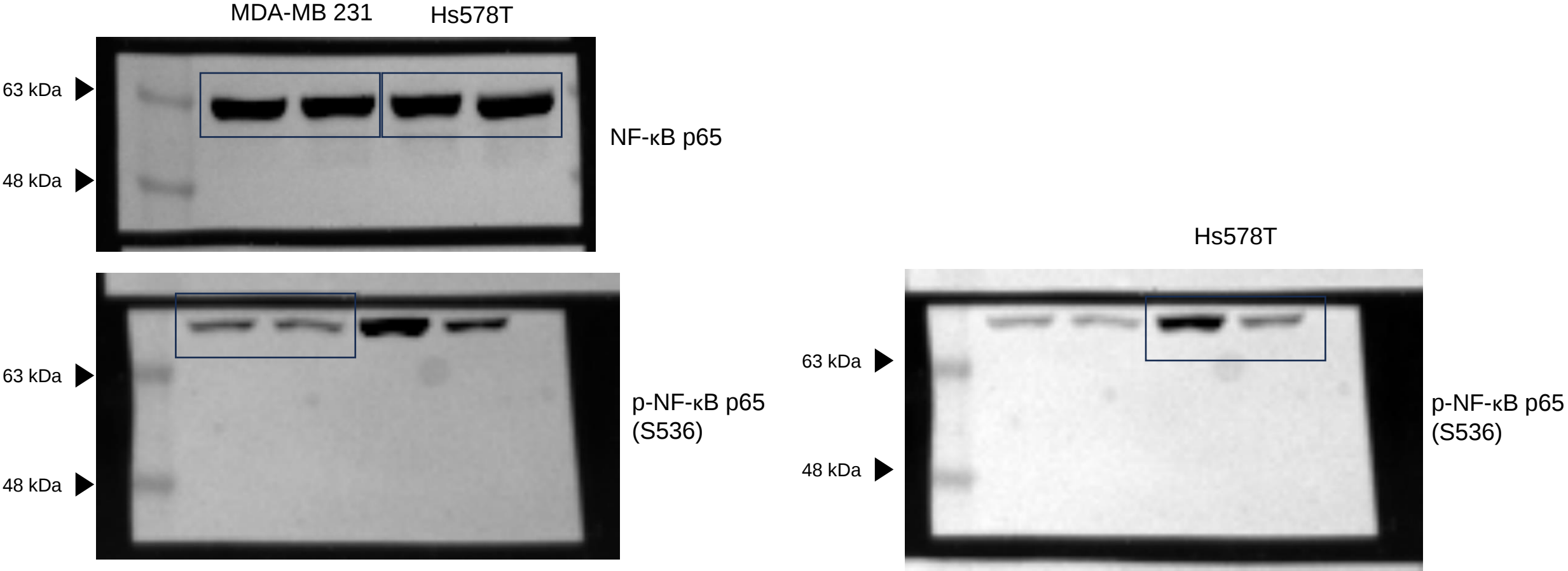
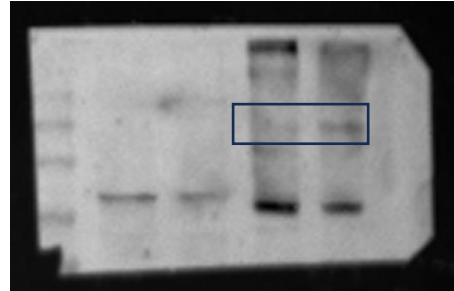


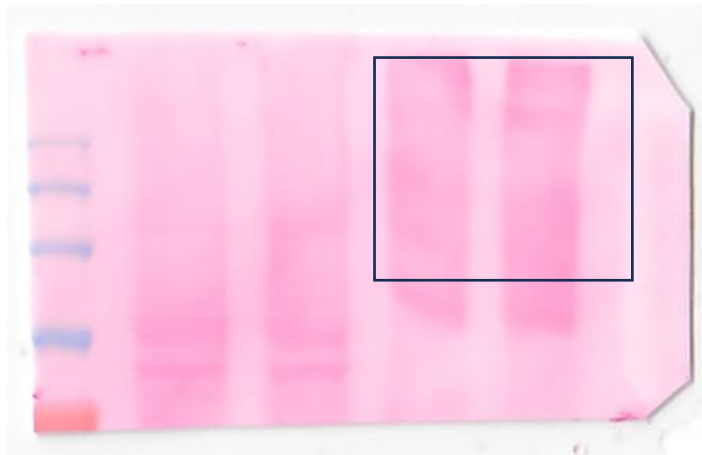
Fig.S1A

LM1

180 kDa ►
135 kDa ►



NID1 (CM)



Ponceau S

Fig.S3A-MDA-MB-231

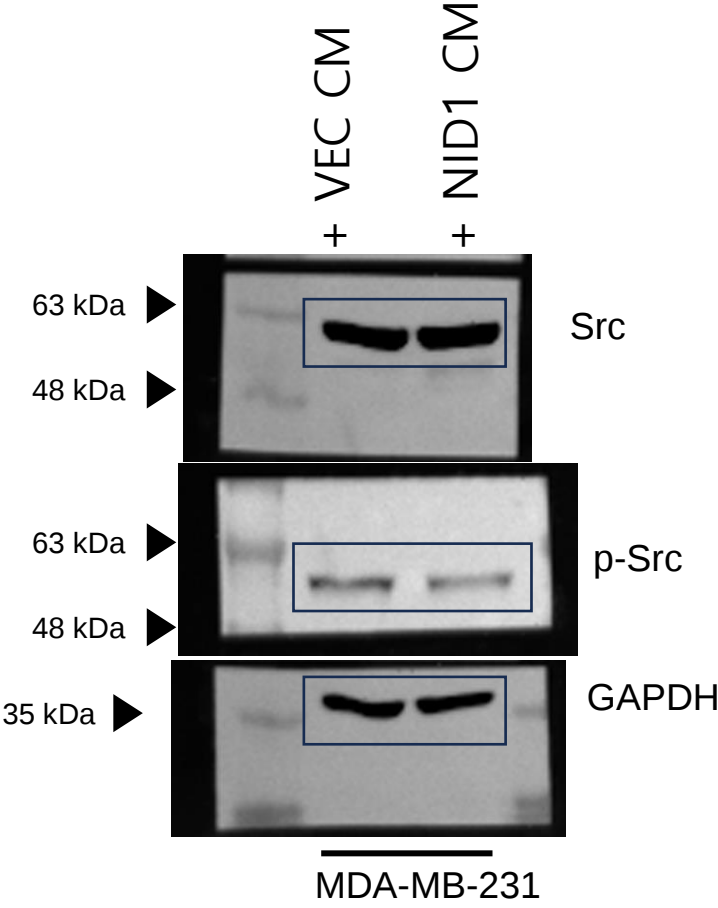
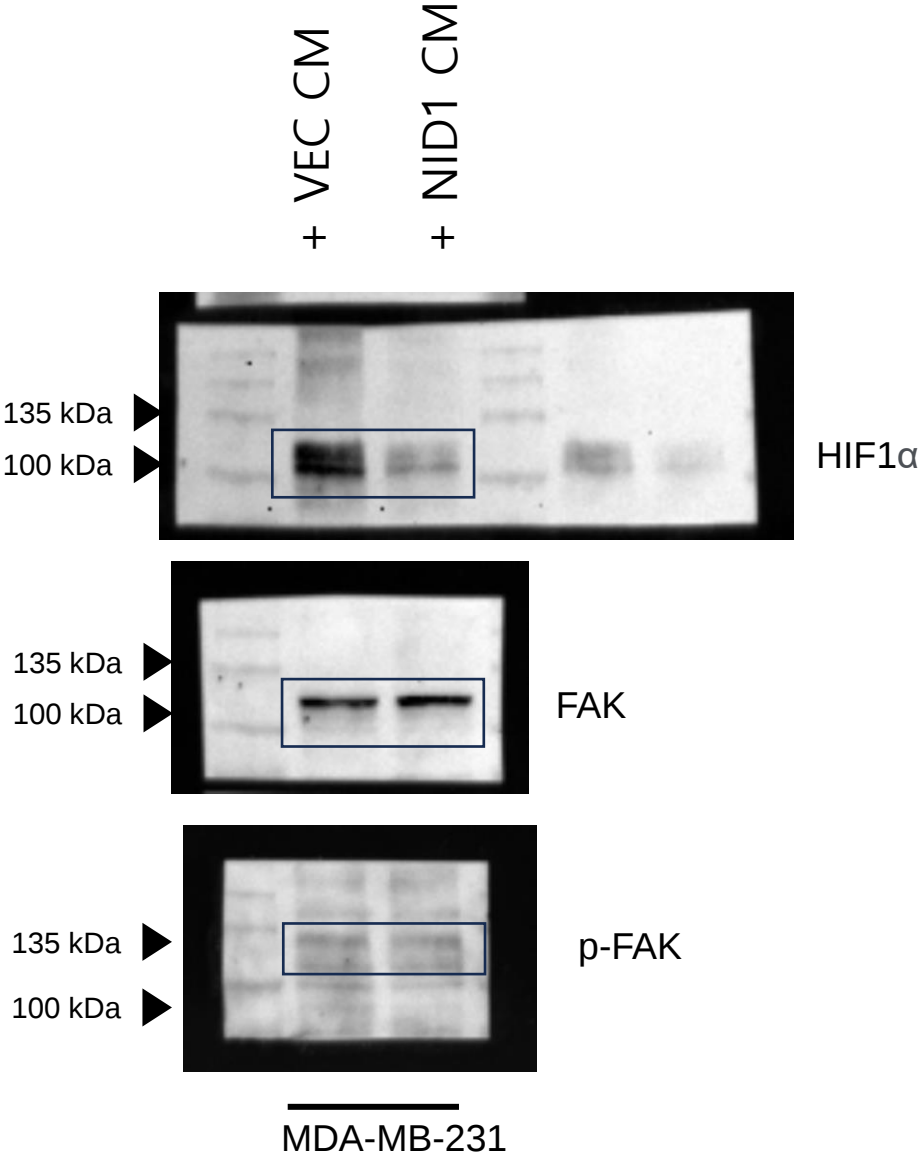


Fig.S3A-Hs578T

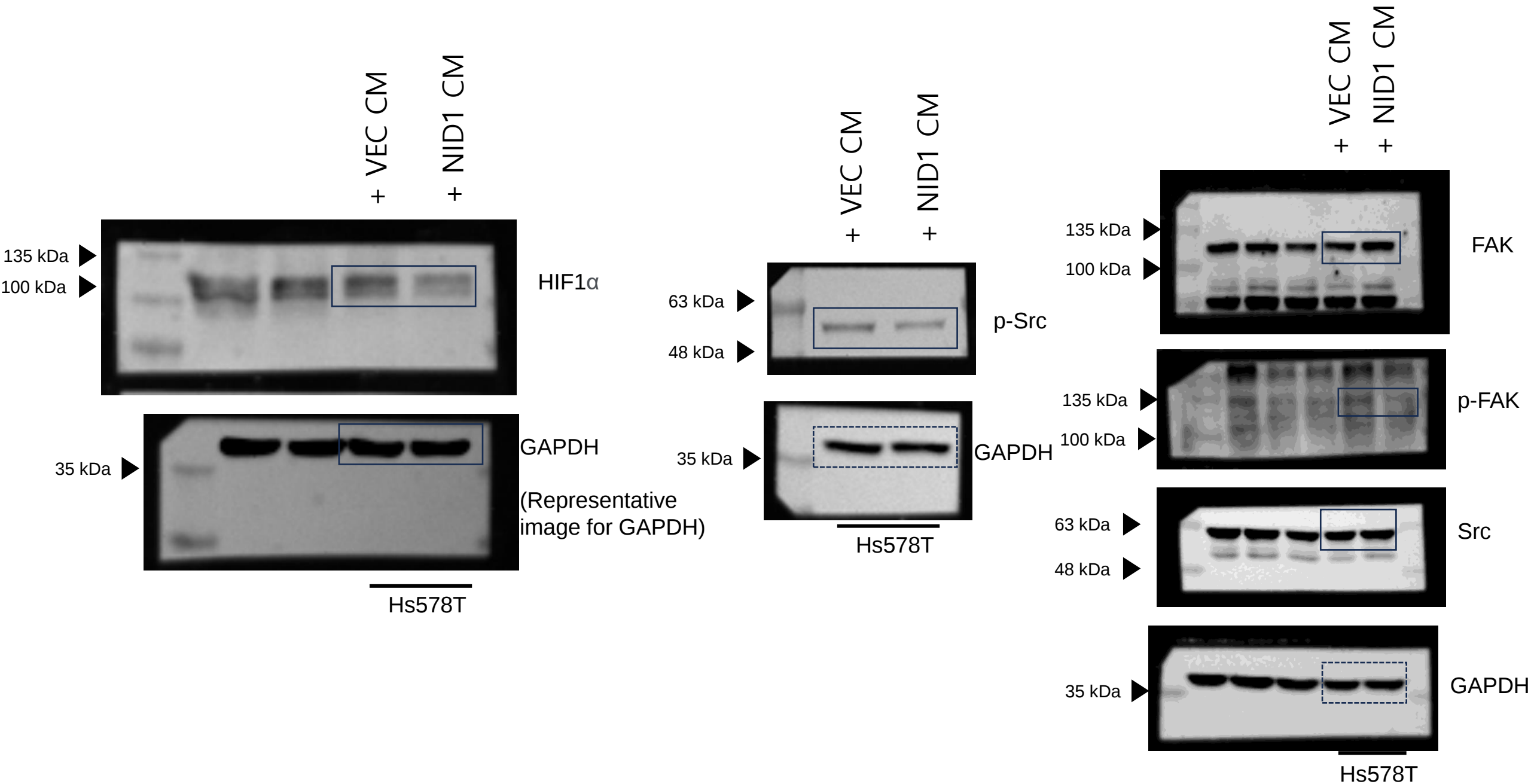


Fig.S3B

