

SUPPLEMENTARY INFORMATION

PDK1 inhibitor BX795 improves cisplatin and radio-efficacy in oral squamous cell carcinoma by downregulating the PDK1/CD47/Akt-mediated glycolysis signalling pathway

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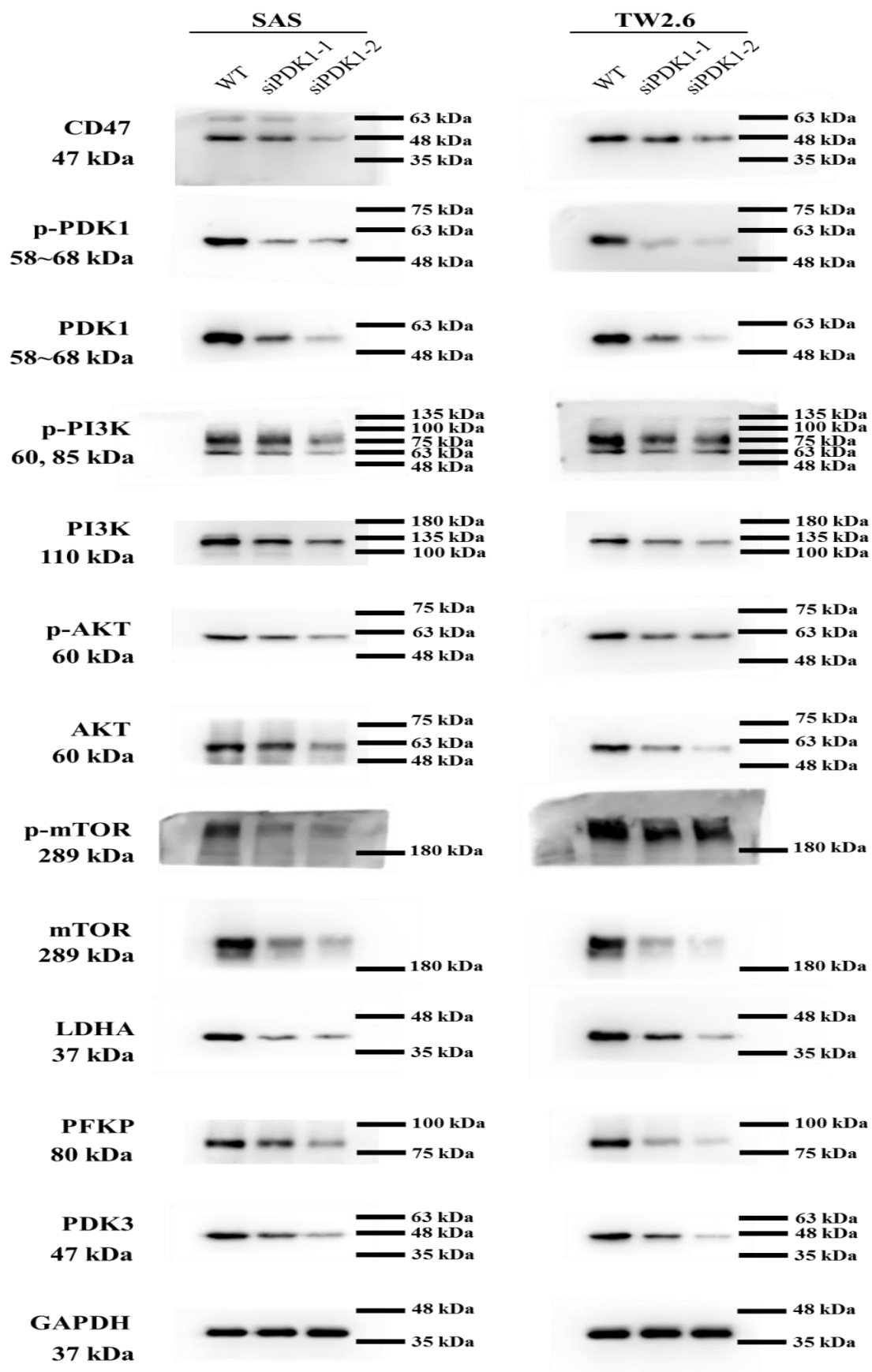
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Working title: PDK1 /CD47/Akt-mediated glycolysis signalling in OSCC

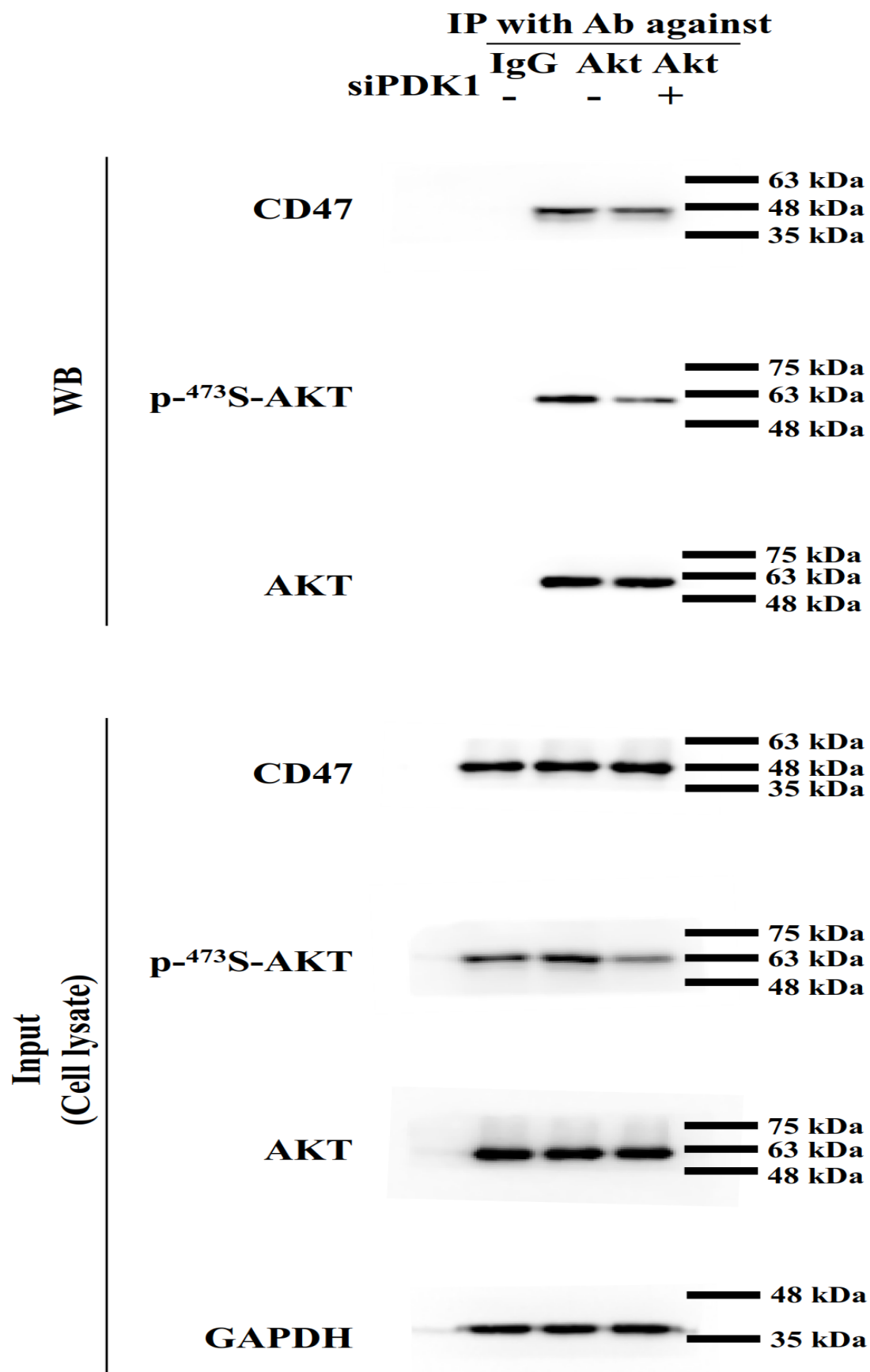
Supplementary Table S1. Western blot antibodies sheet.

No.	Target	Dilution	Catalog	kDa
1	GAPDH	1:1000	GAPDH (0411K) Mouse mAb SC-27724	37
2	CD47	1:500	CD47 (B6H12) Mouse mAb SC-12730	47
3	p-PI3K	1:1000	Phospho-PI3 Kinase p85 (Tyr458)/p55 (Tyr199) Antibody #4228	60 and 85
4	PI3K	1:1000	PI3 Kinase p110 α (C73F8) Rabbit mAb #4249	110
5	p-PDK1	1:1000	Phospho-PDK1 (Ser241) Antibody #3061	58 - 68
6	PDK1	1:1000	PDK1 (D37A7) Rabbit mAb #5662	58 - 68
7	p-AKT	1:1000	Phospho-Akt (Ser473) (D9E) XP® Rabbit mAb #4060	60
8	AKT	1:1000	Akt Rabbit Polyclonal antibody #9272	60
9	p-mTOR	1:1000	Phospho-mTOR (Ser2481) Antibody #2974	289
10	mTOR	1:1000	mTOR (7C10) Rabbit mAb #2983	289
11	Sox2	1:1000	Sox2 (L1D6A2) Mouse mAb #4900	35
12	Oct-4	1:1000	Oct-4 (C30A3) Rabbit mAb #2840	45
13	CD133	1:1000	CD133 Rabbit mAb 18470-1-AP	120
14	LDHA	1:1000	LDHA (C4B5) Rabbit mAb #3582	37
15	Bak	1:1000	Bak (D2D3) Rabbit mAb #6947	25
16	Bax	1:1000	Bax (D2E11) Rabbit mAb #5023	20
17	Bcl-2	1:1000	Bcl-2 (50E3) Rabbit mAb #2870	26
18	E-Cadherin	1:1000	E-Cadherin (24E10) Rabbit mAb #3195	125-135
19	N-cadherin	1:1000	N-Cadherin Rabbit polyclonal Antibody #4061	140
20	Vimentin	1:1000	Anti-Vimentin antibody (ab137321)	57
21	Slug	1:1000	Slug (C19G7) Rabbit mAb #9585	30
22	Snail	1:1000	Snail Rabbit mAb #3879P	29
23	γ -H2AX	1:1000	Gamma-H2AX Recombinant Rabbit Monoclonal Antibody (BLR053F)	15
24	H2AX	1:1000	Histone H2A.X (D17A3) XP® Rabbit mAb #7631	15
25	Cleaved Caspase-3	1:1000	Cleaved Caspase-3 (Asp175) Antibody #9661	17.19
26	Cleaved Caspase-9	1:1000	Cleaved Caspase-9 (Asp315) Antibody (Human Specific) #9505	35
27	β -Catenin	1:1000	β -Catenin (6B3) Rabbit mAb #9582	92
28	PFKP	1:1000	PFKP (D2E5) Rabbit mAb #12746	80
29	PDK3	1:1000	PDK3 Polyclonal antibody (12215-1-AP)	47

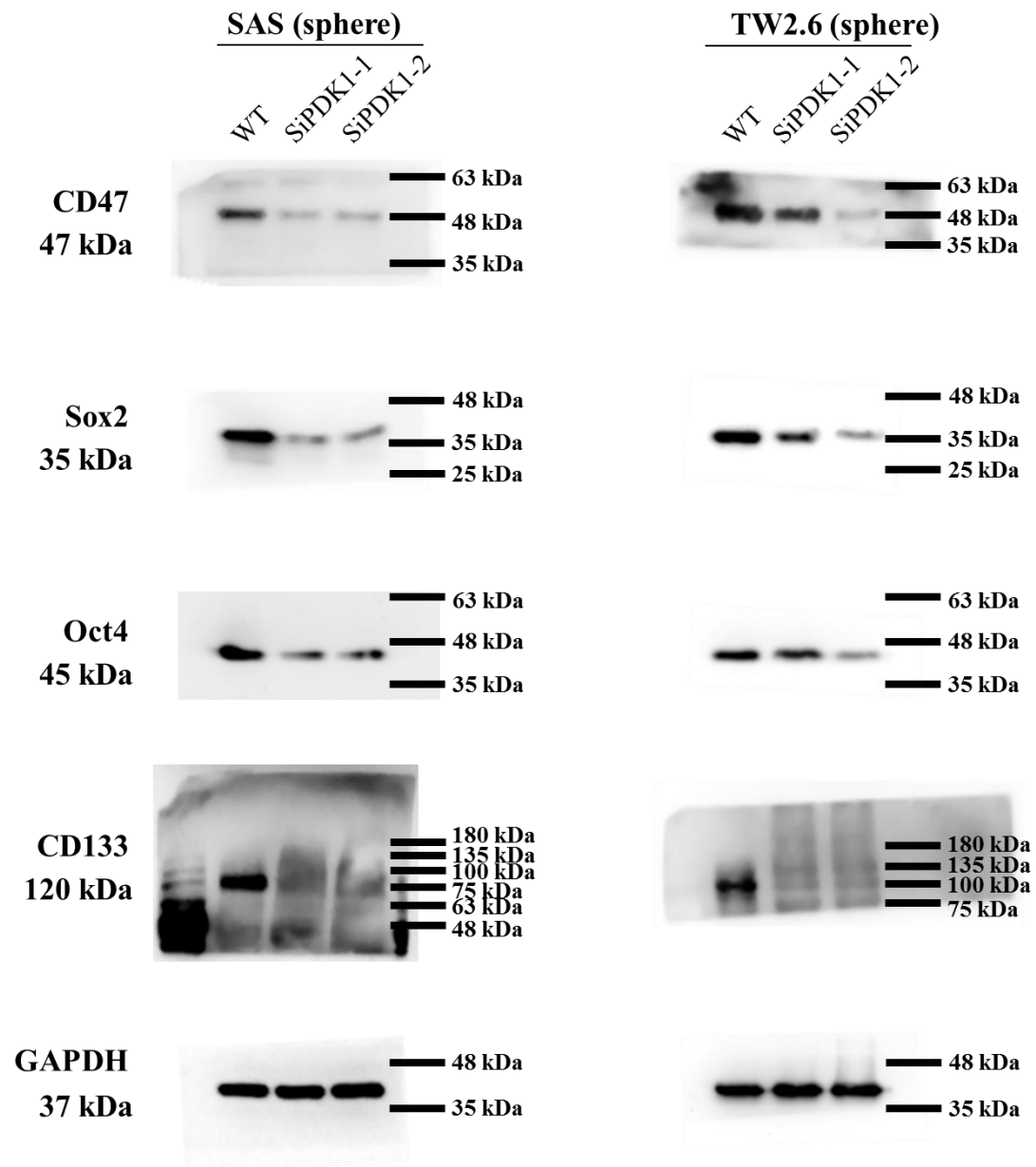
Supplementary Figure S1. Identification of differentially expressed genes (DEGs) in gene expression omnibus (GEO) datasets. (A) Volcano plot of DEGs in GSE30784., Red, blue and gray color represent the relatively high, low and equal expression of genes in the corresponding group, respectively. $p < .05$ and $|\log(\text{FC})| > 1$ were set as the threshold. (B-D) Gene Ontology (GO) and Gene Set Enrichment Analysis (GSEA) of OSCC tumor samples with the normal sample. (E) STRING database analysis of the relationship between PDK1, Akt, CD47, LDHA genes. Network nodes represent proteins encoded by genes. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.



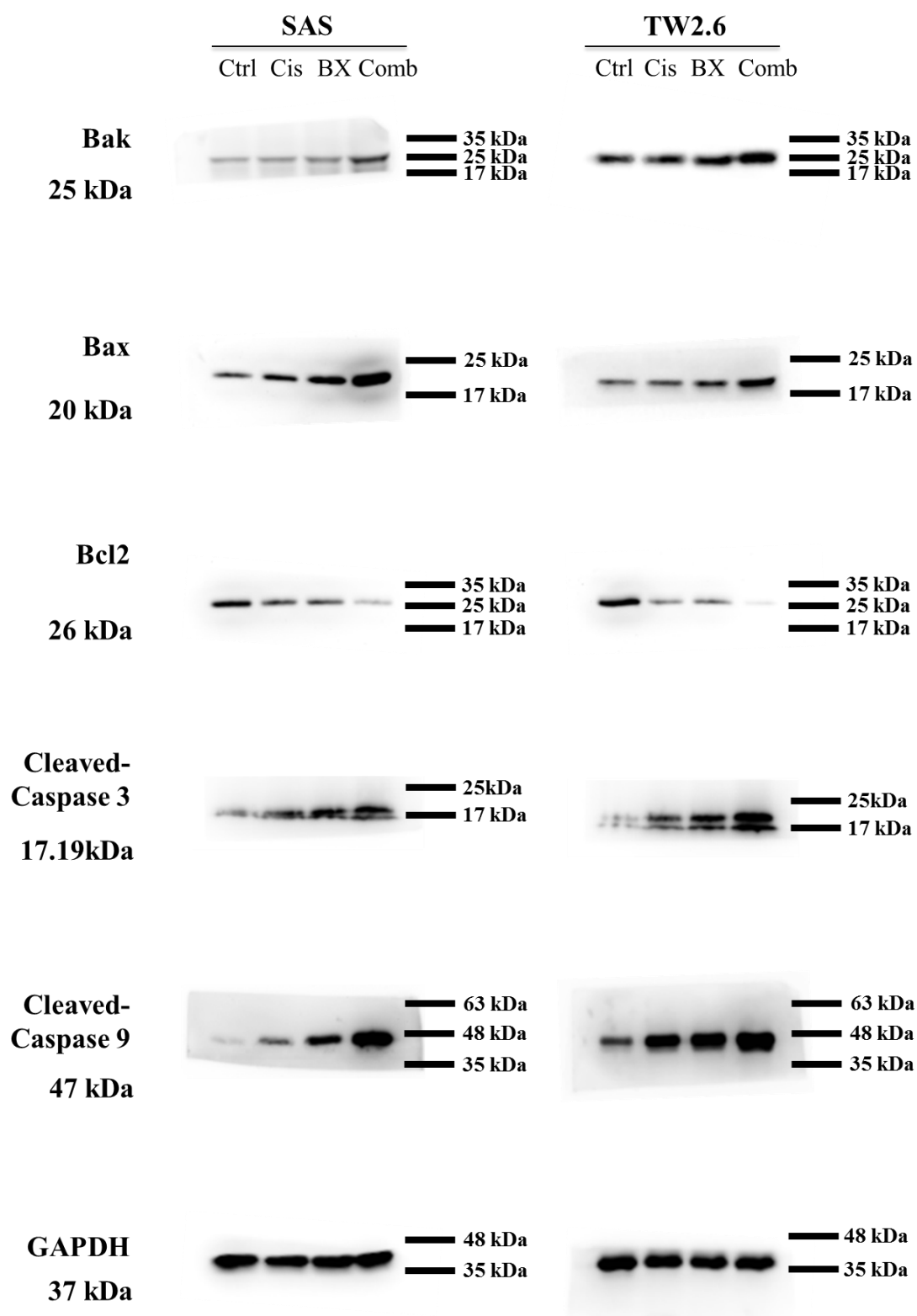
Supplementary Figure S2. Full-size blots of Figure 2D



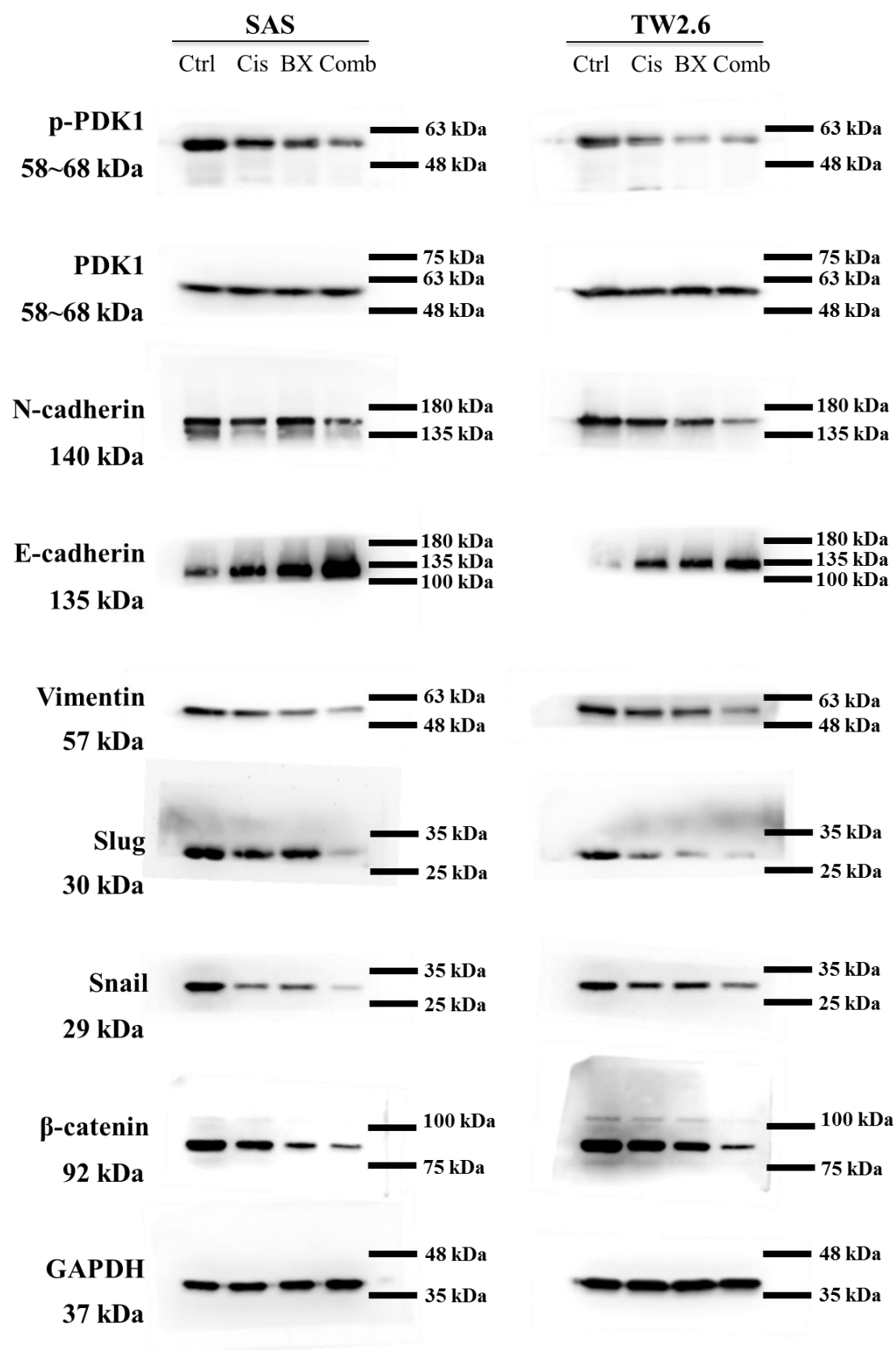
Supplementary Figure S3. Full-size blots of Figure 2E



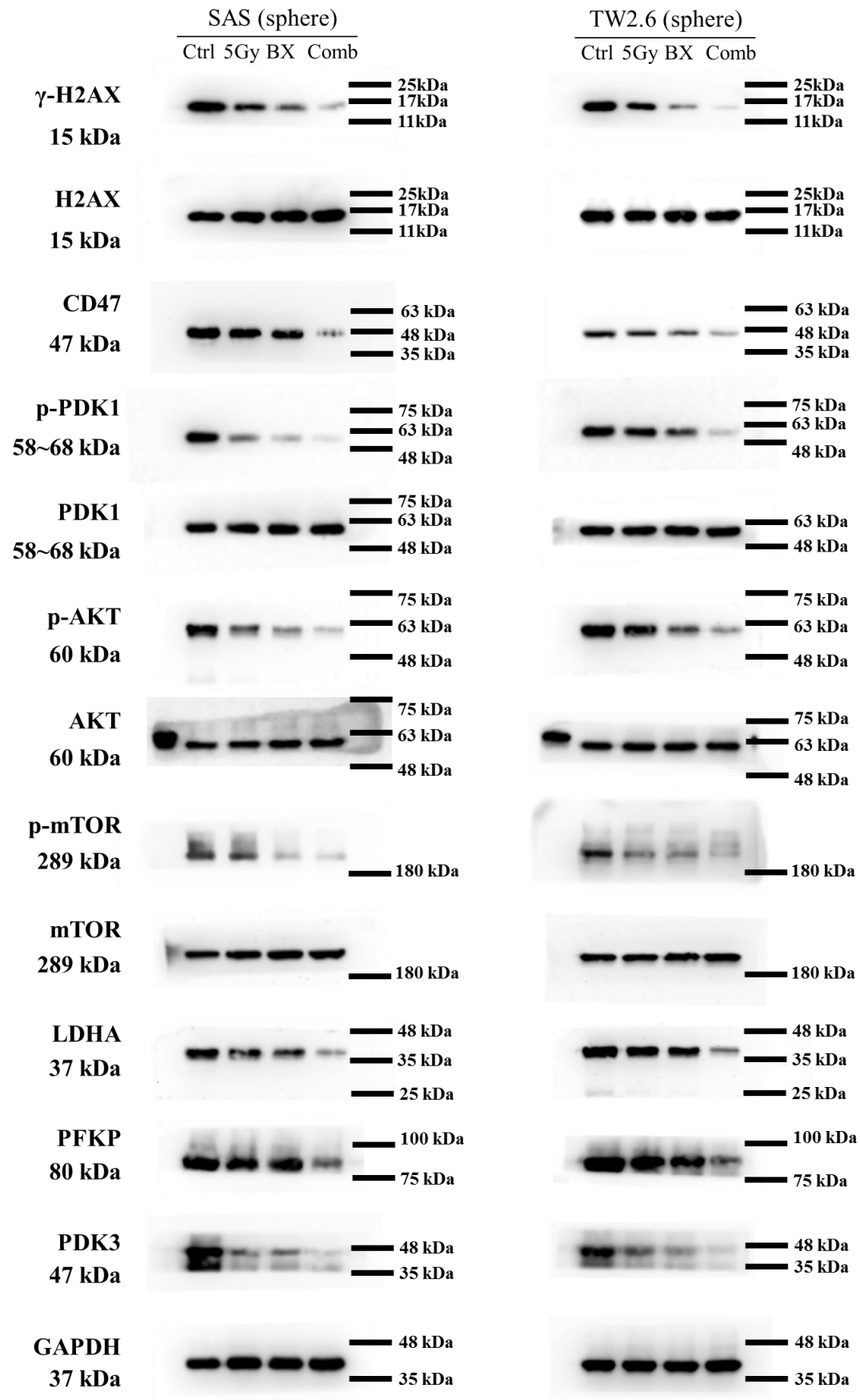
Supplementary Figure S4. Full-size blots of Figure 3D



Supplementary Figure S5. Full-size blots of Figure 4D



Supplementary Figure S6. Full-size blots of Figure 5D



Supplementary Figure S7. Full-size blots of Figure 6F