

CG200745, a novel HDAC inhibitor, attenuates kidney fibrosis in a murine model of Alport syndrome

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Table S1. List of primary and secondary antibodies for immunohistochemistry

	Host	Reactivity	Supplier	Cat. No.
F4/80	Rat	Mouse	Bio-rad	MCA497GA
Transforming growth factor β 1	Rabbit	Human, Mouse	Abcam	ab92486
α smooth muscle actin	Mouse	Human, Mouse	Sigma-Aldrich	A3854
Rabbit IgG, HRP-linked	Goat	Rabbit IgG	Vector	PI-1000
Rat IgG, HRP-linked	Goat	Rat IgG	Vector	PI-9400
Mouse IgG, HRP-linked	Goat	Mouse IgG	Vector	PI-2000

Table S2. List of primary and secondary antibodies for immunoblotting.

	Host	Reactivity	Supplier	Cat. No.
Angiotensin-converting enzyme	Goat	Human, Mouse	Santa Cruz	sc12187
Angiotensin-converting enzyme 2	Goat	Mouse	R&D	AF3437
Angiotensin-converting enzyme 2	Rabbit	Human	Cell Signaling	#4355
Angiotensin II-III	Mouse	Human, Mouse	Novus Biologicals	NB100-62346
Ang II type 1 receptor	Rabbit	Human, Mouse	Santa Cruz	sc-1173
Ang II type 2 receptor	Rabbit	Human, Mouse	Santa Cruz	sc-9040
BAX	Rabbit	Human, Mouse	Cell signaling	#2772
BCL2	Rabbit	Human, Mouse	Cell signaling	#3498
CD68	Rabbit	Mouse	Abcam	ab31630
Caspase 3	Rabbit	Human, Mouse	Cell signaling	#9662
Cleaved caspase 3	Rabbit	Human, Mouse	Cell signaling	#9661
ERK1/2	Rabbit	Human, Mouse	Cell signaling	#9102
Fibronectin	Rabbit	Human, Mouse, Rat	Abcam	ab2413
Heme oxygenase 1	Mouse	Mouse	Abcam	ab13248
JNK	Rabbit	Human, Mouse	Cell signaling	#9252
P38	Rabbit	Human, Mouse	Cell signaling	#9212
Phopho-ERK1/2	Rabbit	Human, Mouse	Cell signaling	#9101
Phopho JNK	Rabbit	Human, Mouse	Cell signaling	#9251
Phospho P38	Rabbit	Human, Mouse	Cell signaling	#9215
Phospho SMAD2/3	Rabbit	Human, Mouse, Rat	Cell Signaling	#8828
SMAD4	Rabbit	Human, Mouse, Rat	Cell Signaling	#38454
SMAD2/3	Rabbit	Human, Mouse, Rat	Cell Signaling	#3102
TNF α -converting enzyme (TACE)	Rabbit	Human, Mouse	Millipore	AB19027
Transforming growth factor β	Rabbit	Human, Mouse, Rat	Cell Signaling	#3711
α smooth muscle actin	Mouse	Human, Mouse, Rat	Sigma-Aldrich	A3854
β -actin	Rabbit	Human, Mouse, Rat	Cell Signaling	#3711
Goat IgG, HRP-linked	Rabbit	Goat IgG	Sigma-Aldrich	AP106P
Rabbit IgG, HRP-linked	Goat	Rabbit IgG	Cell Signaling	#7074
Mouse IgG, HRP-linked	Horse	Mouse IgG	Cell Signaling	#7076

Table S3. List of primer sequences for real-time qPCR

	Forward	Reverse
<i>Homo sapience</i>		
<i>GAPDH</i>	GACATCAAGAAGGTGGTGAA	TGTCATACCAGGAAATGAGC
<i>TGFB1</i>	CAGAAATACAGCAACAATTCTGG	TTGCAGTGTGTTATCCCTGCTGTC
<i>Rattus norvegicus</i>		
<i>Acta2</i> (α SMA)	TGTGCTGGACTCTGGAGATG	GAAGGAATAGCCACGCTCAG
<i>Col1a1</i> (collagen, type I)	CAACCTCAAGAAGTCCCTGC	ACAAGCGTGCTGTAGGTGAA
<i>Gapdh</i>	ATCAAATGGGGTGATGCTGGTGCTG	CAGGTTCTCCAGGCGGCATGTCAG
<i>Fn1</i> (fibronectin)	CATGAAGGGGGTCAGTCCTA	GTCCATTCCCCTTTCCATT
<i>Mus musculus</i>		
<i>Acta2</i> (α SMA)	ACTGGGACGACATGGAAAAG	CATCTCCAGAGTCCAGCACA
<i>Col1a1</i> (collagen, type I)	GAGCGGAGAGTACTGGATCG	TACTCGAACGGGAATCCATC
<i>Gapdh</i>	TGTGTCCCGTCGTGGATCTGA	GATGCCTGCTTCACCACCTT
<i>Icam1</i>	AACTTTCAAGCTCCGGTCCTG	TCAGTGTGAATTGGACCTGCG
<i>Il-6</i>	ACAACCACGGCCTTCCCTACTT	CACGATTCCCAGAGAACATGTG
<i>Fn1</i> (fibronectin)	ACACGGTTCCCATTACGCCAT	AATGACCACTGCCAAAGCCCCAA
<i>Tgfb1</i> (TGF β)	CAACAATTCTGGCGTTACCTTGG	GAAAGCCCTGTATTCCGTCTCCTT
<i>Tnf</i> (TNF α)	GCATGATCCCGCGACGTGGAA	AGATCCATGCCGTTGCCAG
<i>Vcam1</i>	TCTCTCAGGAAATGCCACCC	CACAGCCAATAGCAGCACAC

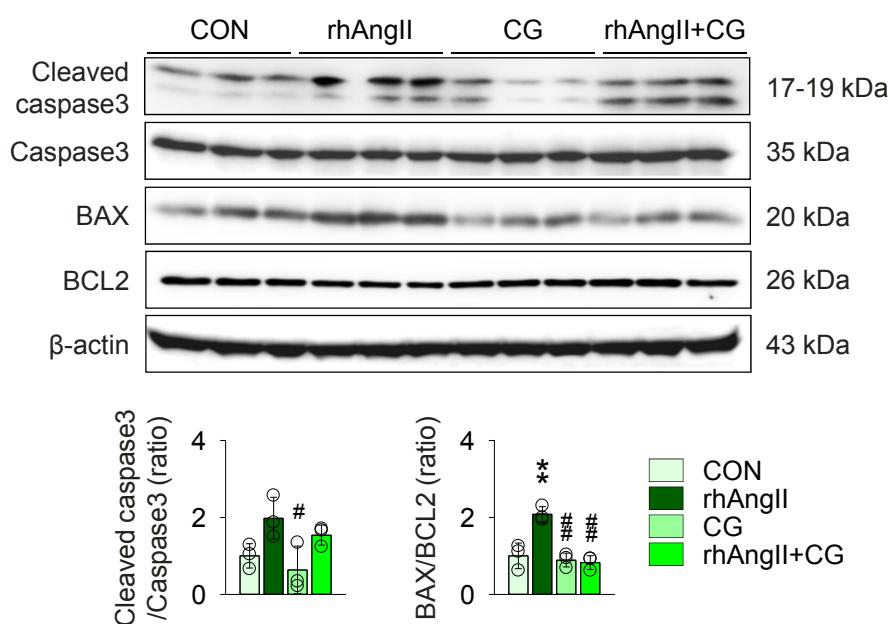


Figure S1. CG alone does not induce apoptosis in HK-2 cells.
 Comparison of protein expression level for molecules related to apoptosis determined by immunoblotting in HK-2 cells after stimulation with vehicles or recombinant human Ang II (rhAng II) with or without co-treatment of CG ($n = 3/\text{group}$). ** $P < 0.01$ vs. control cells (CON); * $P < 0.05$, ** $P < 0.01$ vs. rhAng II-treated cells by one-way ANOVA with Newman-Keuls multiple comparison test.

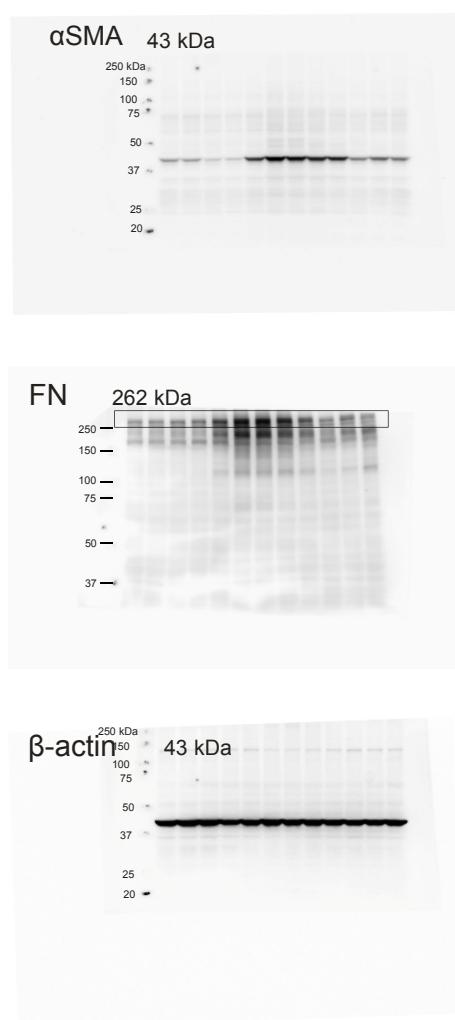


Figure S2. Raw data for immunoblotting related Figure 2

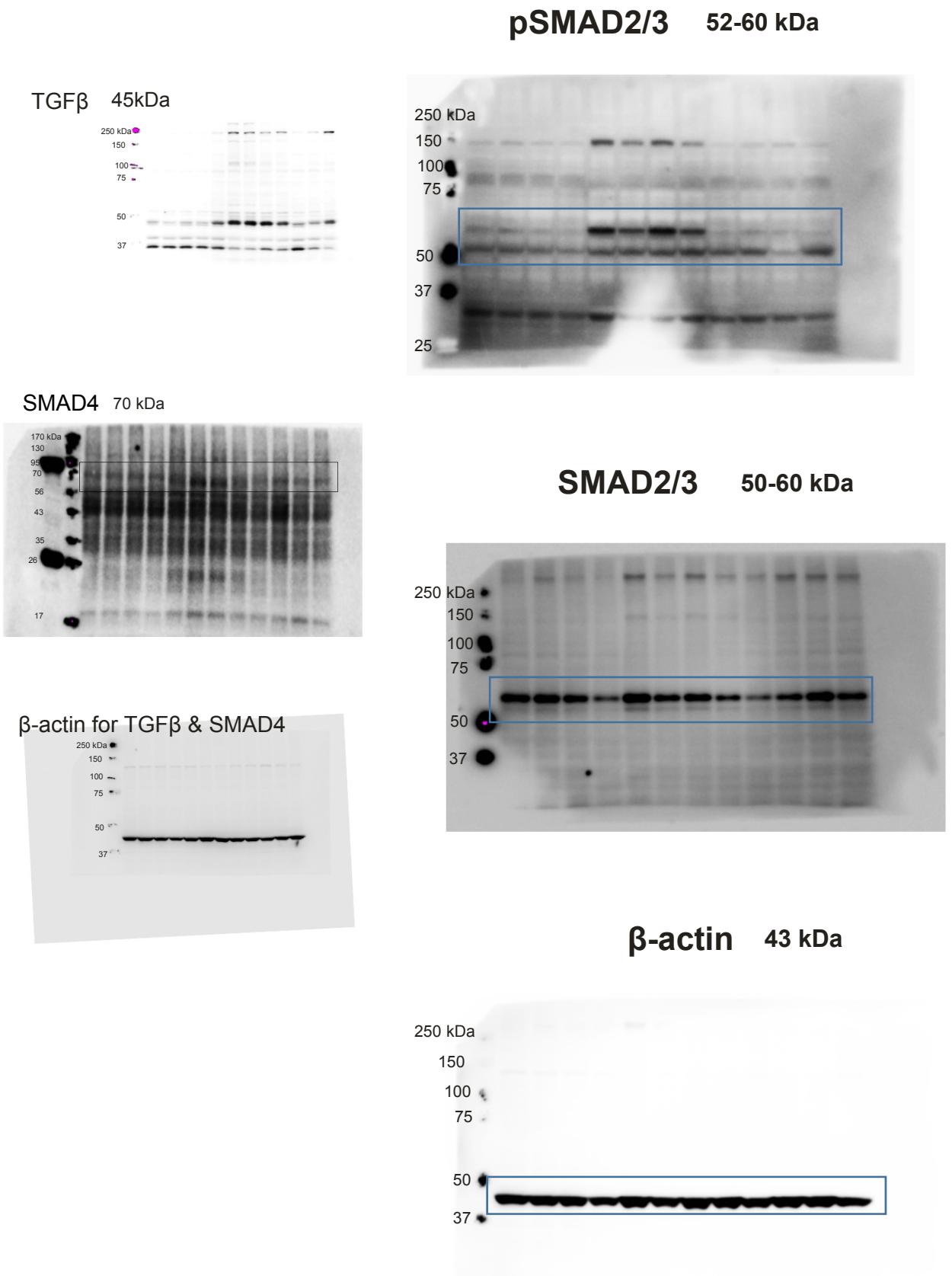


Figure S3. Raw data for immunoblotting related Figure 3

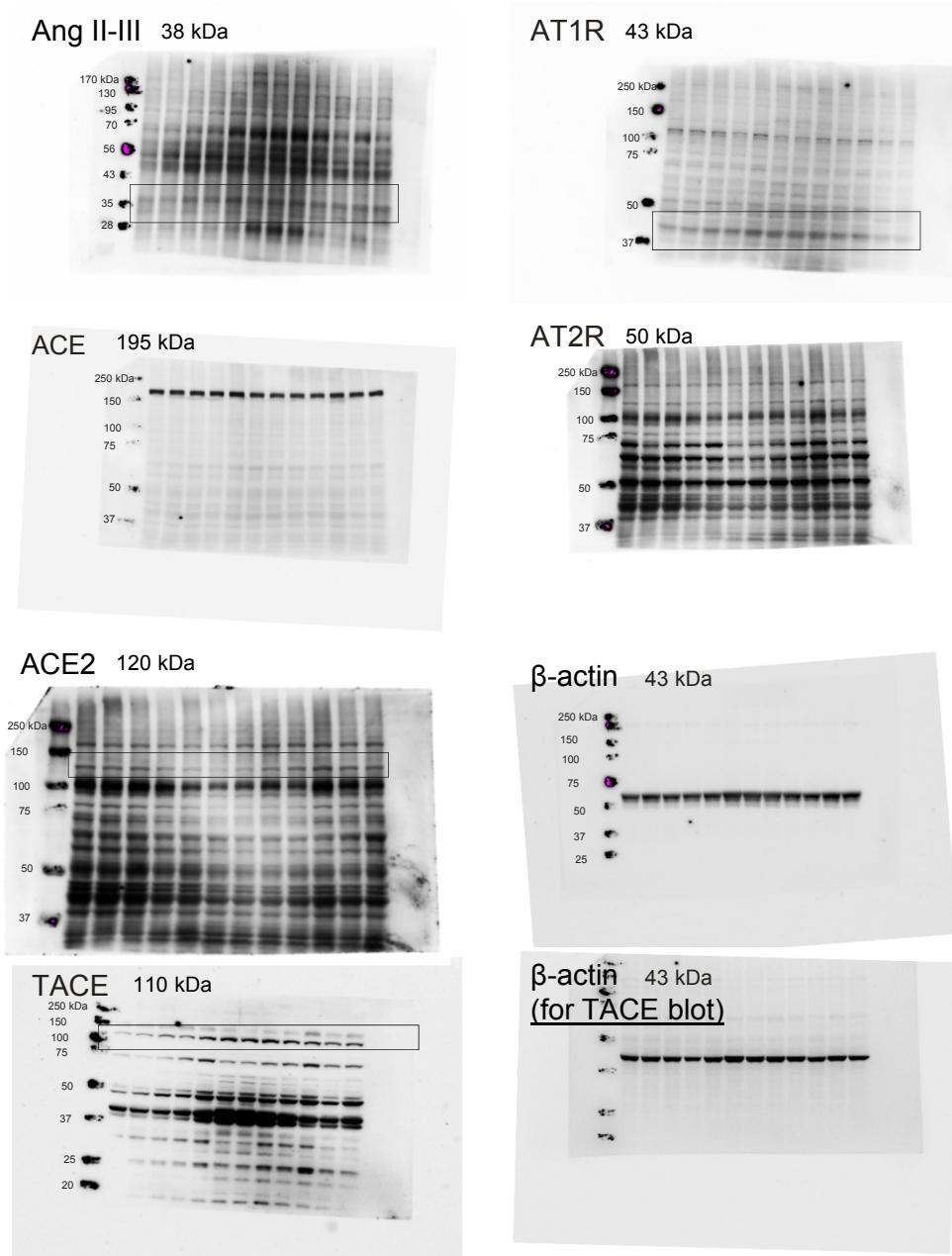


Figure S4. Raw data for immunoblotting related Figure 4

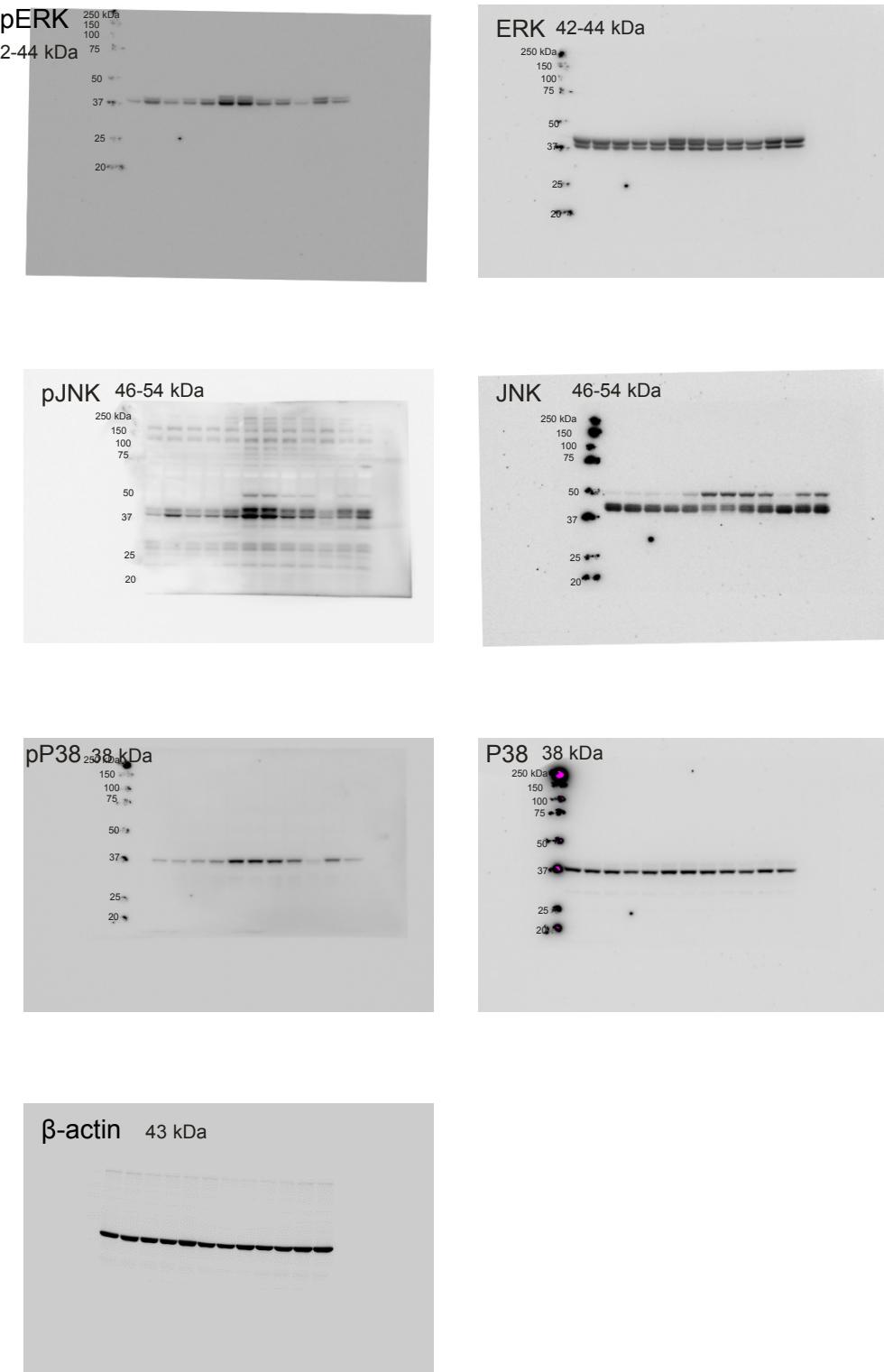


Figure S5. Raw data for immunoblotting related Figure 5

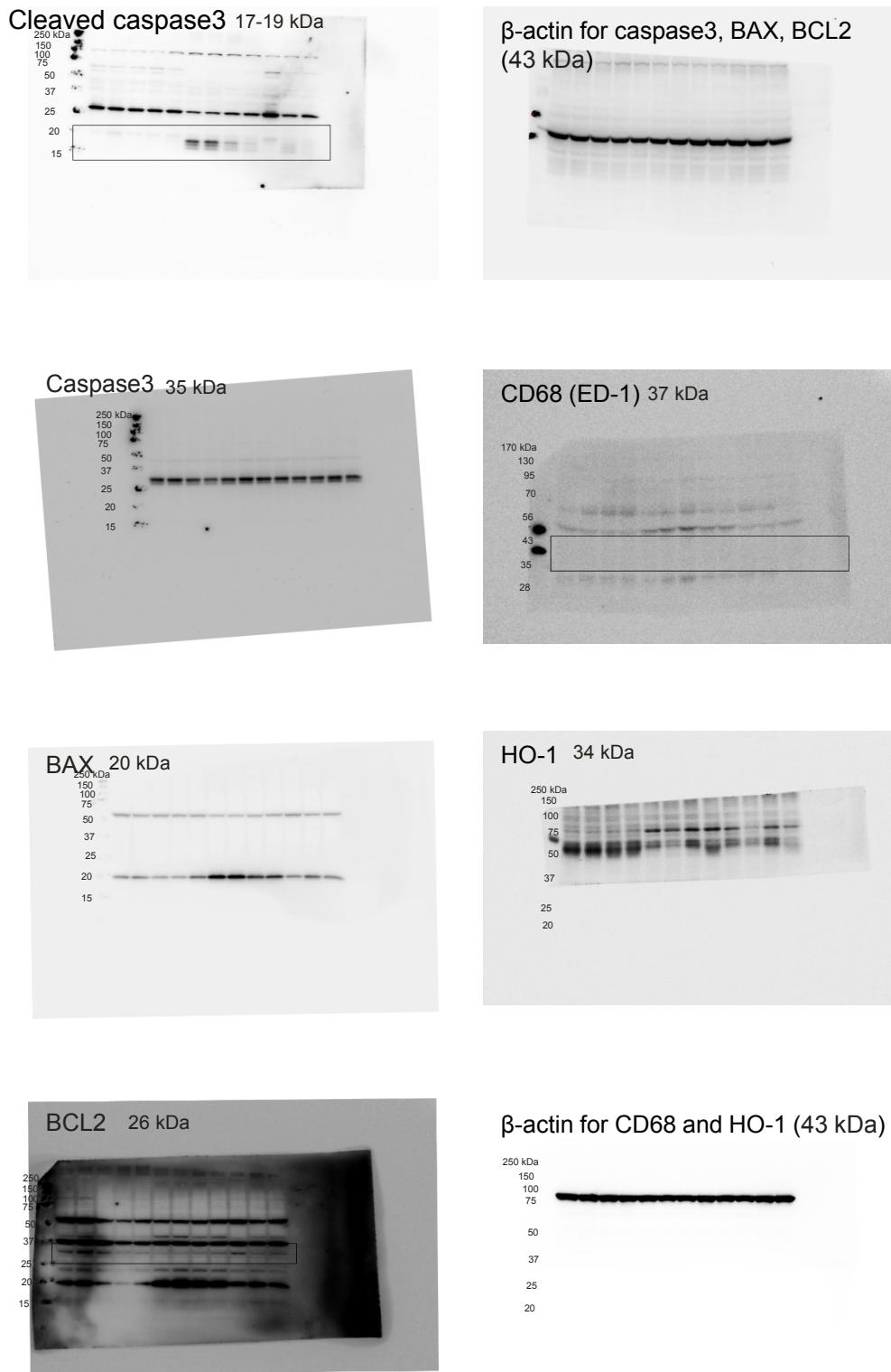


Figure S6. Raw data for immunoblotting related Figure 6

Figure S7

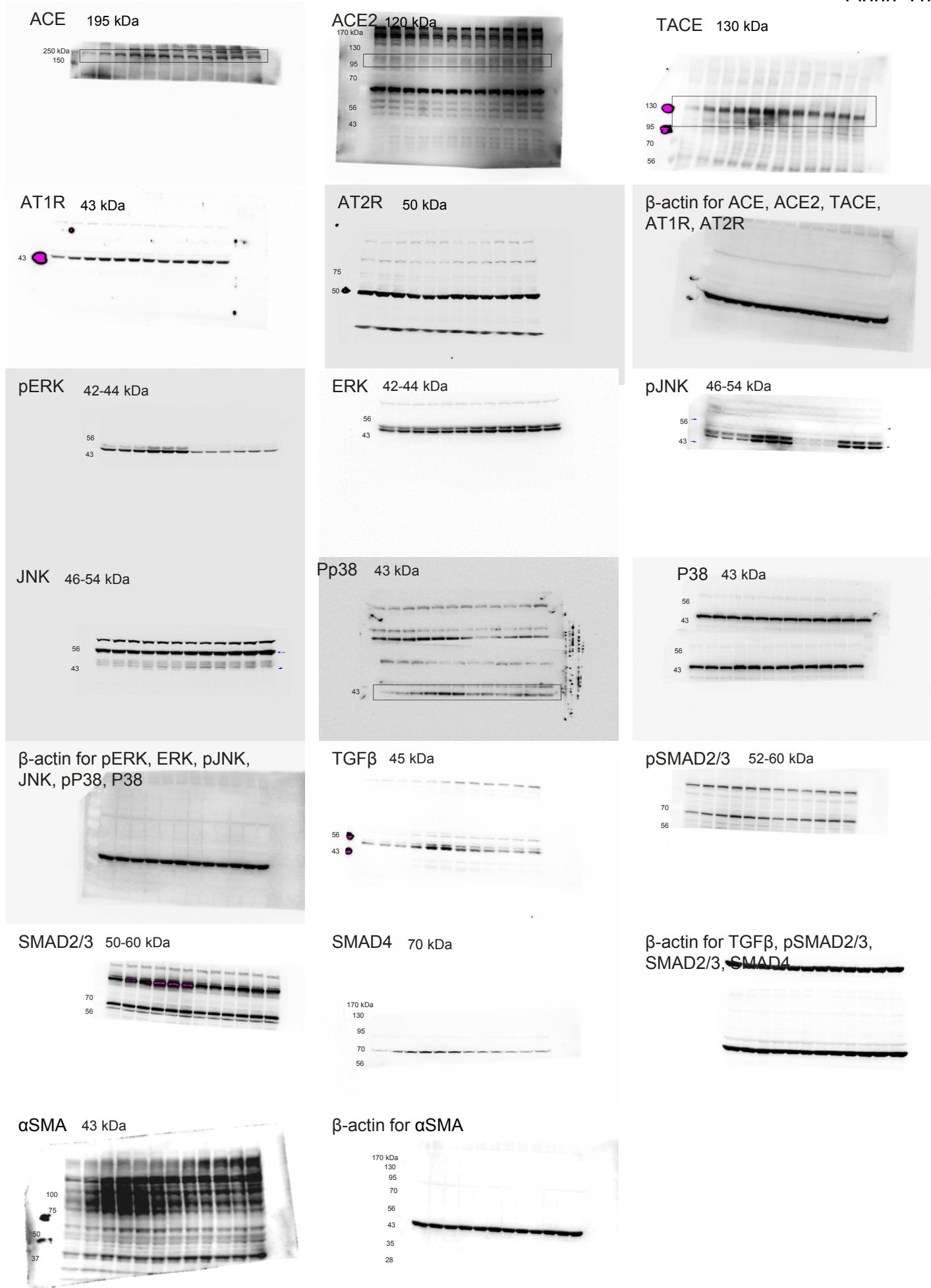


Figure S7. Raw data for immunoblotting related Figure 7

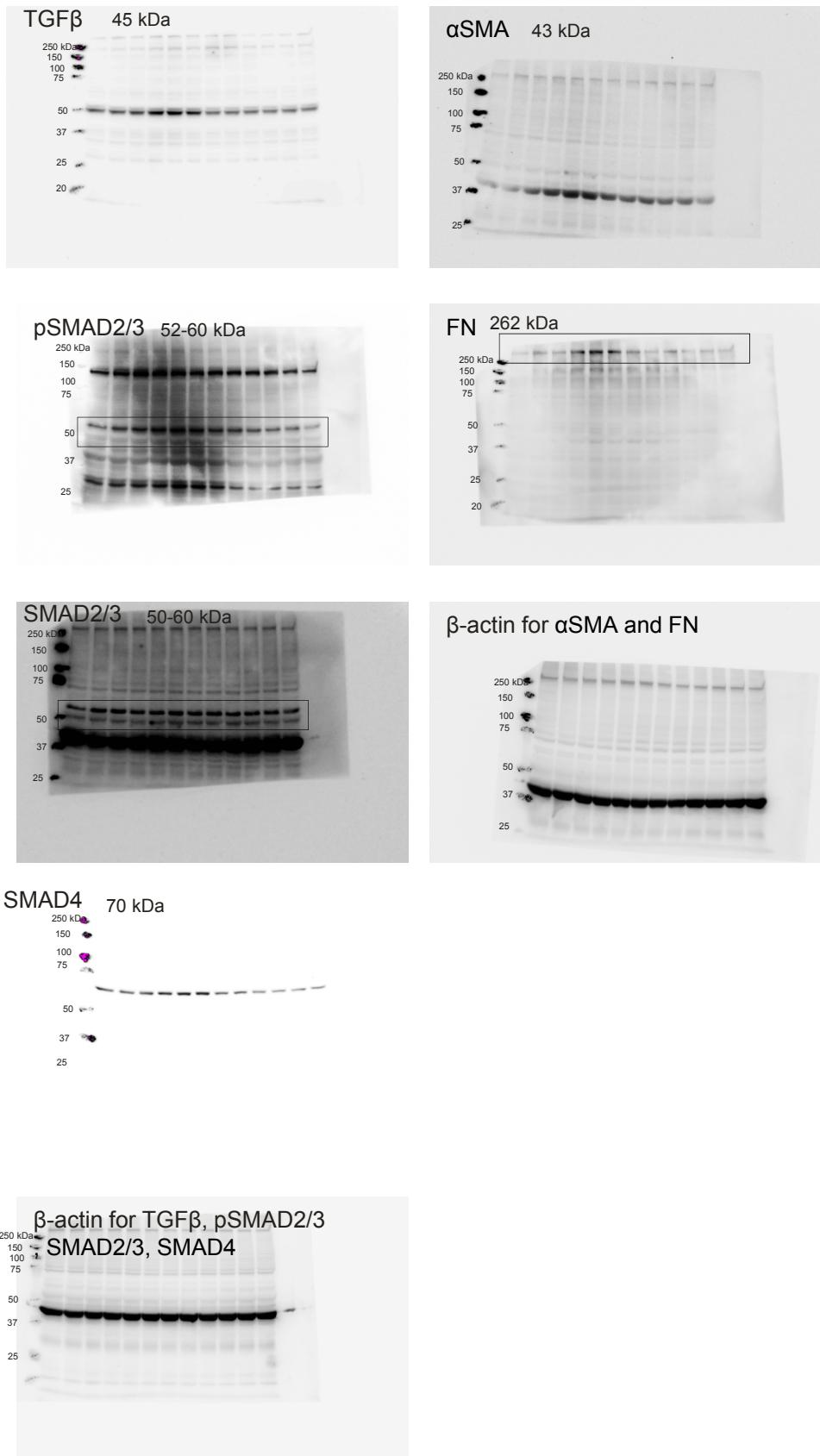


Figure S8. Raw data for immunoblotting related Figure 8