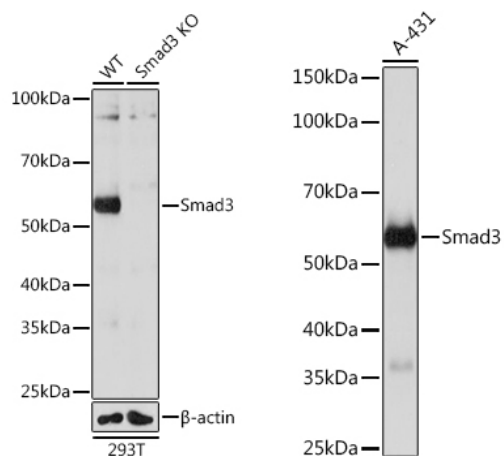
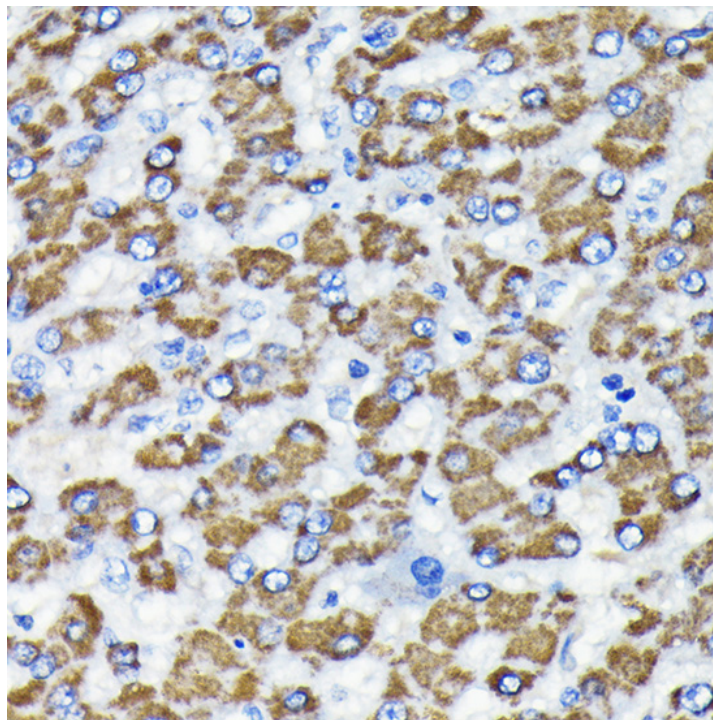


Product name:	[KO Validated] Smad3 Rabbit mAb
Cat number:	AB23491
Conjugate:	Unconjugated
Size:	100 ug
Clone:	ARC0490
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 119-219 of human Smad3 (NP_005893.1).
Reactivity:	Human, Mouse
Applications:	WB, 1:500 - 1:1000 IHC-P, 1:50 - 1:200 IF/ICC, 1:50 - 1:200 IP, 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
Molecular Weight:	52kDa
Purification:	Affinity purification
Form:	liquid
Buffer:	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Background:	The SMAD family of proteins are a group of intracellular signal transducer proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. The SMAD3 protein functions in the transforming growth factor-beta signaling pathway, and transmits signals from the cell surface to the nucleus, regulating gene activity and cell proliferation. This protein forms a complex with other SMAD proteins and binds DNA, functioning both as a transcription factor and tumor suppressor. Mutations in this gene are associated with aneurysms-osteoarthritis syndrome and Loeys-Dietz Syndrome 3.

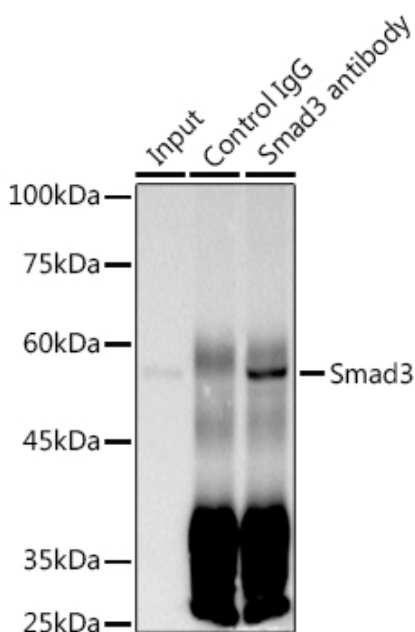


Western blot analysis of lysates from wild type and Smad3 knockout 293T cells, using [KO Validated] Smad3 Rabbit mAb at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit . Exposure time: 10s.

Western blot analysis of lysates from A-431 cells, using [KO Validated] Smad3 Rabbit mAb at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit . Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded human liver using [KO Validated] Smad3 Rabbit mAb at dilution of 1:100 . Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Immunoprecipitation analysis of 300 µg extracts of A-431 cells using 3 µg Smad3 antibody . Western blot was performed from the immunoprecipitate using Smad3 antibody at a dilution of 1:500.