

Rabbit anti-Human Smad3 Monoclonal Antibody | anti-SMAD3 antibody

[KO Validated] Smad3 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282682	Rabbit	Human	ELISA, Immunoprecipitation, Immunohistochemistry, Western Blot

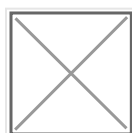
PRODUCT SYNONYMS

Smad3; Monoclonal Antibody; [KO Validated] Smad3 Rabbit mAb; LDS3; mad3; LDS1C; MADH3; JV15-2; hMAD-3; hSMAD3; HSPC193; HsT17436; d3; anti-SMAD3 antibody

PRODUCT SPECIFICATIONS

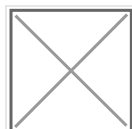
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Protein A
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	HHELAMELC EFAFNMKKDE VCVNPYHYQR VETPVLPPVL VPRHTEIPAE FPPLDDYSHS IPENTNFPAG IEPQSNIPET PPPGYLSEGD ETSDHQMNHS M
Applicable Applications for anti-SMAD3 antibody	ELISA, IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 100-200 of human Smad3 (NP_005893.1).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



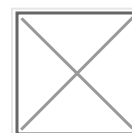
IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human tonsil using [KO Validated] Smad3 Rabbit mAb (AAA282682) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



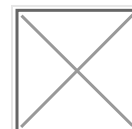
WB (Western Blot)

Western blot analysis of lysates from wild type(WT) and Smad3 Rabbit mAb knockout (KO) HCT116(KO) cells, using Smad3 Rabbit mAb (AAA282682) at 1:20000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 30s.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human testis using [KO Validated] Smad3 Rabbit mAb (AAA282682) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



WB (Western Blot)

Western blot analysis of lysates from Rat testis, using Smad3 Rabbit mAb (AAA282682) at 1:20000 dilution.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 30s.



WB (Western Blot)

Western blot analysis of various lysates, using Smad3 Rabbit mAb (AAA282682) at 1:20000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

ADDITIONAL INFORMATION

Related Product Information for anti-SMAD3 antibody	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.
Product Categories/Family for anti-SMAD3 antibody	Epigenetics Nuclear Signaling; Transcription Factors; Protein phosphorylation; Cancer; Signal Transduction; Cell Biology Developmental Biology; Cell Cycle; Cell Cycle Control-G1 S Checkpoint; TGF-b-Smad Signaling Pathway; ESC Pluripotency and Differentiat

NCBI AND UNIPROT INFORMATION

NCBI GI #	223029440
NCBI GeneID	4088
NCBI Accession #	NP_001138574.1
NCBI GenBank Nucleotide #	NM_001145102.1
UniProt Accession #	P84022; O09064; O09144; O14510; O35273; Q92940; Q93002; A8K4B6; B7Z4Z5; B7Z6M9; B7Z9Q2; F5H383
Molecular Weight	Calculated MW: 48kDa Observed MW: 52kDa
UniProt Protein Name	Mothers against decapentaplegic homolog 3
UniProt Gene Name	SMAD3
UniProt Synonym Gene Names	MADH3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; SMAD 3; Smad3; hSMAD3
UniProt Entry Name	SMAD3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/smad3-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/282682>