

Rabbit SMAD6 Polyclonal Antibody | anti-SMAD6 antibody

Anti-SMAD6 Antibody (aa323-372)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA162306	Rabbit	Human Predicted: Mouse	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

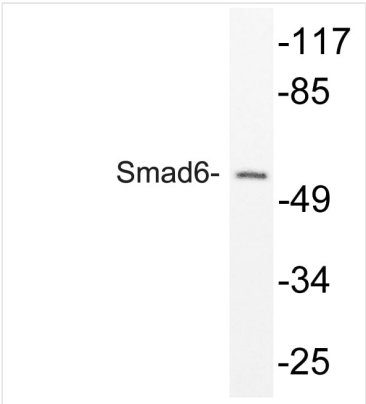
SMAD6; Polyclonal Antibody; Anti-SMAD6 Antibody (aa323-372); Rabbit Polyclonal (IgG) to Human SMAD6; AOVD2; HSMAD6; HsT17432; SMAD 6; MADH7; Mothers against DPP homolog 6; SMAD family member 6; MAD homolog 6; MADH6; anti-SMAD6 antibody

PRODUCT SPECIFICATIONS

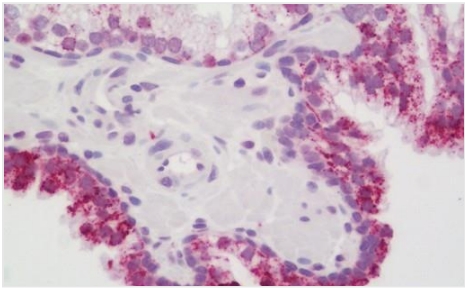
Host	Rabbit
Reactivity	Human Predicted: Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Smad6 antibody detects endogenous levels of Smad6.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol.
Sequence Length	496
Applicable Applications for anti-SMAD6 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	SMAD6 antibody was raised against synthetic peptide derived from human Smad6. (AA Range: 323-372)
Immunogen Species	Human
Epitope	aa323-372
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at -20°C.

IMAGES



WB (Western Blot)
Western blot analysis of lysate from mouse brain, using Smad6 antibody.



IHC (Immunohistochemistry)
Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

Related Product Information for anti-SMAD6 antibody	Acts as a mediator of TGF-beta and BMP antiinflammatory activity. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B-mediated expression of proinflammatory genes. May block the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding. Binds to regulatory elements in target promoter regions.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	92859871
NCBI GeneID	4091
NCBI Accession #	NP_005576.3
NCBI GenBank Nucleotide #	NM_005585.4
UniProt Accession #	O43541; O43654; Q15799; Q7Z7L4; Q96E31; Q9UKZ3; A9J6M5
Molecular Weight	Predicted MW: 53 kDa
NCBI Official Full Name	mothers against decapentaplegic homolog 6
NCBI Official Synonym Full Names	SMAD family member 6
NCBI Official Symbol	SMAD6
NCBI Official Synonym Symbols	AOVD2; MADH6; MADH7; HsT17432
NCBI Protein Information	mothers against decapentaplegic homolog 6
UniProt Protein Name	Mothers against decapentaplegic homolog 6
UniProt Gene Name	SMAD6
UniProt Synonym Gene Names	MADH6; MAD homolog 6; Mothers against DPP homolog 6; SMAD 6; Smad6; hSMAD6

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/polyclonal/smad6-antibody-western-blot-immunohistochemistry-elisa/162306>