Rabbit anti-Human SMAD9 Polyclonal Antibody | anti-SMAD9 antibody

SMAD9 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283861	**Rabbit**	**Human**	**Immunofluorescence, ELISA, Western Blot**

PRODUCT SYNONYMS

SMAD9; Polyclonal Antibody; SMAD9 Antibody (Center); Mothers against decapentaplegic homolog 9; MAD homolog 9; Mothers against DPP homolog 9; Madh6; SMAD family member 9; SMAD 9; Smad9; MADH6; MADH9; anti-SMAD9 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SMAD9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 200-228 amino acids from the Central region of human SMAD9.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.45 (varies by lot)
Sequence Positions	200-228
Sequence Length	430
Applicable Applications for anti-SMAD9 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

IF (Immunofluorescence)
Fluorescent confocal image of MCF-7 cell stained with SMAD9 Antibody (Center). MCF-7 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with SMAD9 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min).SMAD9 immunoreactivity is localized to cytoplasm and nucleus significantly.

WB (Western Blot)
SMAD9 Antibody (Center) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the SMAD9 antibody detected the SMAD9 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-SMAD9 antibody	The protein encoded by this gene is a member of the SMAD family, which transduces signals from TGF-beta family members. The encoded protein is activated by bone morphogenetic proteins and interacts with SMAD4. Two transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-SMAD9 antibody	Cancer; Metabolism; Signal Transduction
References	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Liu, Y., et al. FASEB J. 23(7):2299-2306(2009) Su, D., et al. J. Biol. Chem. 284(18):12153-12164(2009) Shintani, M., et al. J. Med. Genet. 46(5):331-337(2009) Hoover, L.L., et al. Sci Signal 1 (46), PE48 (2008) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	187828357
NCBI GeneID	4093
NCBI Accession #	NP_001120689.1; NP_005896.1
NCBI GenBank Nucleotide #	NM_001127217.2
UniProt Accession #	O15198; O14989; Q5TBA1; A2A2Y6
Molecular Weight	52493
NCBI Official Full Name	mothers against decapentaplegic homolog 9 isoform a
NCBI Official Synonym Full Names	SMAD family member 9
NCBI Official Symbol	SMAD9
NCBI Official Synonym Symbols	PPH2; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B
NCBI Protein Information	mothers against decapentaplegic homolog 9
UniProt Protein Name	Mothers against decapentaplegic homolog 9
UniProt Gene Name	**SMAD9**
UniProt Synonym Gene Names	MADH6; MADH9; MAD homolog 9; Mothers against DPP homolog 9; SMAD 9; Smad9
UniProt Entry Name	SMAD9_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/polyclonal/smad9-antibody-immunofluorescence-western-blot-elisa/283861