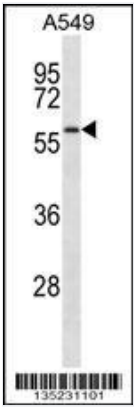
SMAD9 Antibody – Rabbit Polyclonal

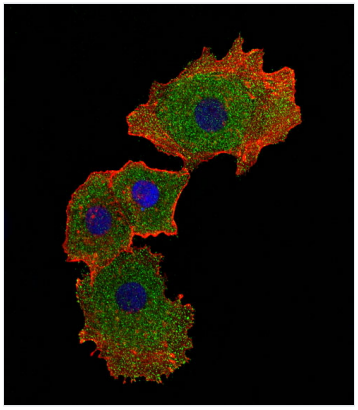
PRODUCT OVERVIEW

Product Name	SMAD9, Polyclonal Antibody
Full Product Name	SMAD9, ID (SMAD9, MADH6, MADH9, Mothers against decapentaplegic homolog 9, Madh6, SMAD family member 9) (FITC)
Product Gene Name	anti-SMAD9 antibody
Product Synonym Names	SMAD9; MADH6; MADH9; Mothers against decapentaplegic homolog 9; Madh6; SMAD family member 9
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	48,640 Da
OMIM	gene 615342
3D Structure	ModBase 3D Structure for O15198
Immunogen	SMAD9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 199-228 amino acids from the Central region of human SMAD9.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SMAD9 antibody	Antibodies; Smad Proteins
Applications Tested/Suitable for anti-SMAD9 antibody	Western Blot (WB), FLISA
Application Notes for anti-SMAD9 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
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 References and Citations for anti-SMAD9 antibody	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).

Other Notes	Small volumes of anti-SMAD9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SMAD9 purchase	MBS6348806 is an antibody targeting SMAD9. Also known as SMAD9, ID (SMAD9, MADH6, MADH9, Mothers against decapentaplegic homolog 9, Madh6, SMAD family member 9) (FITC). Reactive in Human. Host: Rabbit.



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



Immunofluorescence (IF) of anti-SMAD9 antibody
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 C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree C). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min).SMAD9 immunoreactivity is localized to cytoplasm and nucleus significantly.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMAD9. It may not necessarily be applicable to this product.

NCBI GI #	5174519
NCBI GeneID	4093
NCBI Accession #	NP_005896.1
NCBI Related Accession #	NP_001120689.1
UniProt Primary Accession #	O15198
UniProt Secondary Accession #	O14989; Q5TBA1; A2A2Y6
UniProt Related Accession #	O15198
GenBank Nucleotide #	NM_005905.5
NCBI Official Full Name	mothers against decapentaplegic homolog 9 isoform b
NCBI Official Synonym Full Names	SMAD family member 9
NCBI Official Symbol	SMAD9
NCBI Official Synonym Symbols	PPH2; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B; SMAD8/9
UniProt Protein Name	Mothers against decapentaplegic homolog 9
UniProt Synonym Protein Names	Madh6; SMAD family member 9; SMAD 9; Smad9
Protein Family	Mothers against decapentaplegic
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
NCBI Protein Information	mothers against decapentaplegic homolog 9
UniProt Comments for SMAD9	Smad8: transcription factor phosphorylated and activated by bone morphogenetic protein receptor kinases. Phosphorylated Smads dimerize with collaborating Smad4 and are translocated into the nucleus, where they regulate transcription of target genes. Participates in a wide range of critical processes including morphogenesis, cell-fate determination, proliferation, differentiation and apoptosis. Two alternatively spliced products have been described. Protein type: Transcription, coactivator/corepressor; DNA-binding Chromosomal Location of Human Ortholog: 13q12-q14 Cellular Component: nucleoplasm; transcription factor complex; cytoplasm; intracellular; cytosol; nucleus Molecular Function: protein binding; DNA binding; metal ion binding; transcription factor activity; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity Biological Process: BMP signaling pathway; Mullerian duct regression; transcription, DNA-dependent; ureteric bud development; positive regulation of transcription, DNA-dependent; transforming growth factor beta receptor signaling pathway; cartilage development; midbrain development; response to hypoxia; positive regulation of cell differentiation; protein amino acid phosphorylation; hindbrain development Disease: Pulmonary Hypertension, Primary, 2
Research Articles on SMAD9	**1.** Case Report: hamartomatous olyposis and gastrointestinal ganglioneuromas with SMAD9 germline mutation that reduces PTEN expression.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/smad9/6348806