SMAD9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMAD9, Polyclonal Antibody
Full Product Name	SMAD9 Rabbit pAb
Product Gene Name	anti-SMAD9 antibody
Product Synonym Names	PPH2; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B; SMAD8/9
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	45kDa; 52kDa
OMIM	gene 615342
3D Structure	ModBase 3D Structure for O15198
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human SMAD9 (NP_005896.1).
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SMAD9 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-SMAD9 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-SMAD9 antibody	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD9 is a receptor-regulated SMAD (R-SMAD).
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	MBS8546876 is an antibody targeting SMAD9. Also known as SMAD9 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	13959539
NCBI GeneID	4093

NCBI Accession #	O15198.1
UniProt Primary Accession #	O15198
UniProt Related Accession #	O15198
NCBI Official Full Name	Mothers against decapentaplegic homolog 9
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
NCBI Summary for SMAD9	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.[provided by RefSeq, Jan 2010]
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.** The SNPs of the rs6435156 and rs1048829 locus in the BMPR2 gene, the rs121909287 loci in the ACVRL1 gene, and the rs397514716 locus in the SMAD9 gene were associated with a risk of essential hypertension (EH) in Han Chinese.
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