SMAD 6 Antibody

PRODUCT OVERVIEW

Product Name	Smad 6, Antibody
Full Product Name	Smad 6 Antibody
Product Gene Name	anti-Smad 6 antibody
Product Synonym Names	hSMAD6 antibody; MAD homolog 6 antibody; MADH6 antibody; MADH7 antibody; Mothers against decapentaplegic homolog 6 antibody; Mothers against DPP homolog 6 antibody; SMAD 6 antibody
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Smad 6 Antibody detects endogenous levels of total Smad 6
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	50 KD
OMIM	602931
3D Structure	ModBase 3D Structure for O43541
Immunogen	A synthesized peptide
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Smad 6 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-Smad 6 antibody	WB: 1:1000 IHC: 1:50-1:200
Related Product Information for anti-Smad 6 antibody	Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit selectively BMP (bone morphogenetic proteins) signaling by competing with the co-SMAD SMAD4 for receptor-activated SMAD1.
Other Notes	Small volumes of anti-Smad 6 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 Smad 6 purchase	MBS8511791 is an antibody targeting Smad 6. Also known as Smad 6 Antibody. Reactive in Human, Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Smad 6. It may not necessarily be applicable to this product.

NCBI GI #	92859871
NCBI GeneID	4091
NCBI Accession #	NP_005576.3
UniProt Primary Accession #	O43541
UniProt Secondary Accession #	O43654; Q15799; Q7Z7L4; Q96E31; Q9UKZ3; A9J6M5
UniProt Related Accession #	O43541

GenBank Nucleotide #	NM_005585.4
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
UniProt Protein Name	Mothers against decapentaplegic homolog 6
UniProt Synonym Protein Names	SMAD family member 6; SMAD 6; Smad6; hSMAD6
Protein Family	Mothers against decapentaplegic
UniProt Gene Name	SMAD6
UniProt Synonym Gene Names	MADH6; MAD homolog 6; Mothers against DPP homolog 6; SMAD 6; Smad6; hSMAD6
NCBI Protein Information	mothers against decapentaplegic homolog 6
NCBI Summary for Smad 6	The protein encoded by this gene belongs to the SMAD family of proteins, which are related to Drosophila 'mothers against decapentaplegic' (Mad) and C. elegans Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions in the negative regulation of BMP and TGF-beta/activin-signalling. Multiple transcript variants have been found for this gene.[provided by RefSeq, Sep 2014]
UniProt Comments for Smad 6	Acts as a mediator of TGF-beta and BMP antiflammatory 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.
Research Articles on Smad 6	**1.** activation of AMPK upregulated Smad6 and Smurf1 and thereby enhanced their interactions, resulting in its proteosome-dependent degradation of ALK2.
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.
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