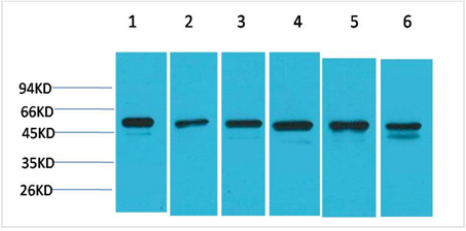
SMAD3 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Smad3, Polyclonal Antibody
Full Product Name	Smad3 Rabbit Polyclonal Antibody
Product Gene Name	anti-Smad3 antibody
Product Synonym Names	hMAD3 antibody; HSPC193 antibody; LDS1C antibody; MADH3 antibody; JV15 2 antibody
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	Human, Rat, Mouse
Form/Format	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Purity/Purification	Affinity Purified
Specificity	Antibody can detects endogenous Smad3 protein.
Preparation and Storage	Store at -20 degree C. Do not aliquot the antibody.
Molecular Weight	~50KD
OMIM	114500
Storage Buffer	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Smad3 antibody	Western Blot (WB)
Application Notes for anti-Smad3 antibody	WB: 1:1,000-2,000
Related Product Information for anti-Smad3 antibody	Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3/SMAD4 complex, activates transcription.
Other Notes	Small volumes of anti-Smad3 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 Smad3 purchase	MBS8510442 is an antibody targeting Smad3. Also known as Smad3 Rabbit Polyclonal Antibody. Reactive in Human, Rat, Mouse.



Western Blot (WB) of anti-Smad3 antibody
Western blot analysis of 1) A431, 2) Hela, 3)C2C12, 4)3T3, 5) PC12, 6) Rat Brain Tissue, with Smad3 Rabbit pAb E12-393 diluted at 1: 2, 000.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Smad3. It may not necessarily be applicable to this product.

NCBI GI #	18418623
NCBI GeneID	4088
NCBI Accession #	AAL68976.1
UniProt Secondary Accession #	O09064; O09144; O14510; O35273; Q92940; Q93002; A8K4B6; B7Z4Z5; B7Z6M9; B7Z9Q2; F5H383
UniProt Related Accession #	P84022
NCBI Official Full Name	Smad3
NCBI Official Synonym Full Names	SMAD family member 3
NCBI Official Symbol	SMAD3
NCBI Official Synonym Symbols	LDS3; LDS1C; MADH3; JV15-2; HSPC193; HsT17436
UniProt Protein Name	Mothers against decapentaplegic homolog 3
UniProt Synonym Protein Names	JV15-2; SMAD family member 3; SMAD 3; Smad3; hSMAD3
Protein Family	Mothers against decapentaplegic
UniProt Gene Name	SMAD3
UniProt Synonym Gene Names	MADH3; MAD homolog 3; Mad3; Mothers against DPP homolog 3; hMAD-3; SMAD 3; Smad3; hSMAD3
NCBI Protein Information	mothers against decapentaplegic homolog 3
NCBI Summary for Smad3	The protein encoded by this gene belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions as a transcriptional modulator activated by transforming growth factor-beta and is thought to play a role in the regulation of carcinogenesis. [provided by RefSeq, Apr 2009]
UniProt Comments for Smad3	Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD3/SMAD4 complex, activates transcription. Also can form a SMAD3/SMAD4/JUN/FOS complex at the AP-1/SMAD site to regulate TGF-beta-mediated transcription. Has an inhibitory effect on wound healing probably by modulating both growth and migration of primary keratinocytes and by altering the TGF-mediated chemotaxis of monocytes. This effect on wound healing appears to be hormone-sensitive. Regulator of chondrogenesis and osteogenesis and inhibits early healing of bone fractures. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator.
Research Articles on Smad3	**1.** ERK1/2 mediates Heme oxygenase-1 or CO-induced Smad3 phosphorylation at Thr179.
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