



Rabbit Anti-Human Smad3 Polyclonal Antibody (CABT-L2190)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Mothers Against Decapentaplegic Homolog 3 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against Smad3. It has been selected for its ability to recognize Smad3 in immunohistochemical staining and western blotting.
Target	Smad3
Immunogen	Recombinant fragment corresponding to human SMAD3 (Phe231~Ser425)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Rat
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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]
Keywords	JV15-2;MADH3

GENE INFORMATION

Gene Name	SMAD3 SMAD family member 3 [Homo sapiens (human)]
Official Symbol	SMAD3
Synonyms	SMAD3; SMAD family member 3; LDS3; LDS1C; MADH3; JV15-2; HSPC193; HsT17436; mothers against decapentaplegic homolog 3; mad3; hMAD-3; hSMAD3; MAD homolog 3; mad homolog JV15-2; mad protein homolog; mothers against DPP homolog 3; SMA- and MAD-related protein 3; SMAD, mothers against DPP homolog 3; MAD, mothers against decapentaplegic homolog 3;
Entrez Gene ID	4088
Protein Refseq	NP_001138574
UniProt ID	P84022
Chromosome Location	15q22.33
Pathway	AGE/RAGE pathway; Activin signaling; Adherens junction; Adipogenesis; Alpha6-Beta4 Integrin Signaling Pathway; Androgen receptor signaling pathway; Cell cycle; Chagas disease (American trypanosomiasis);
Function	R-SMAD binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter sequence-specific DNA binding transcription factor activity; bHLH transcription factor binding; beta-catenin binding; chromatin DNA binding; co-SMAD binding; collagen binding; core

promoter proximal region sequence-specific DNA binding; double-stranded DNA binding; enhancer binding; identical protein binding; phosphatase binding; protein binding; contributes_to protein binding transcription factor activity; protein homodimerization activity; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; contributes_to sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; transforming growth factor beta receptor binding; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity; ubiquitin binding; ubiquitin protein ligase binding; zinc ion binding;
