

Rabbit Anti-SMAD3 Polyclonal Antibody

CPB-836RH Rabbit(SMAD3)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-SMAD3 Polyclonal Antibody
Antigen Description	Smad3 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.
specificity	The antibody detects endogenous level of SMAD3 only when phosphorylated at serine 425.
Target	SMAD3
Immunogen	Peptide sequence around phosphorylation site of serine 425 (C-S-S-V-S(p)) derived from Human SMAD3.
Host	Rabbit
Species	Human
Cross Reactivity	Human; Mouse; Rat
conjugation	N/A
Applications	IHC

PACKAGING

Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C /1 year

ANTIGEN GENE INFORMATION

Gene Name	SMAD3 SMAD family member 3 [Homo sapiens]
Official Symbol	SMAD3
Synonyms	SMAD3; SMAD family member 3; MAD, mothers against decapentaplegic homolog 3 (Drosophila) , MADH3, SMAD, mothers against DPP homolog 3 (Drosophila); mothers against decapentaplegic homolog 3; HsT17436; JV15 2; 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; LDS1C; MADH3; JV15-2; HSPC193; MGC60396; DKFZp586N0721; DKFZp686J10186;
GeneID	4088
mRNA Refseq	NM_001145102
Protein Refseq	NP_001138574
MIM	603109
UniProt ID	P84022

Chromosome Location 15q21-q22

Pathway

Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Adipogenesis, organism-specific biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;

Function

R-SMAD binding; RNA polymerase II activating 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; metal ion 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;