

Recombinant Human SMAD Family Member 3, GST-tagged

Cat. No. SMAD3-1094H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SMAD3 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	SMAD3 is a direct mediator of transcriptional activation by the TGF β receptor. The activity of SMAD3 is regulated by the TGF β receptors, and SMAD3 is phosphorylated and associated with the ligand-bound receptor complex. TGF β stimulation leads to phosphorylation and activation of SMAD3, which form a complex with SMAD4 that accumulate in the nucleus and regulate transcription of target genes such as CDK inhibitor.
Applications	Kinase Assay; Western Blot
Molecular Weight	77 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25 % glycerol.
Purity	> 90 %

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Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Adipogenesis; Adherens junction; Alpha6-Beta4 Integrin Signaling Pathway; Cell cycle; Chagas disease (American trypanosomiasis); Colorectal cancer; EGFR1 Signaling Pathway; Endocytosis; HTLV-I infection; Pancreatic cancer; Pathways in cancer; Regulation of cytoplasmic and nuclear SMAD2/3 signaling; Regulation of nuclear SMAD2/3 signaling; Signaling by TGF beta; TGF Beta Signaling Pathway; Wnt signaling pathway

GENE INFORMATION

Gene Name	SMAD3 SMAD family member 3 [Homo sapiens]
Official Symbol	SMAD3
Synonyms	SMAD3; SMAD family member 3; LDS1C; MADH3; JV15-2; HSPC193; HsT17436; MGC60396; DKFZp586N0721; DKFZp686J10186; mothers against decapentaplegic homolog 3; mad3; hMAD-3; hSMAD3; MAD homolog 3; OTTHUMP00000164305; 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; MAD, mothers against decapentaplegic homolog 3 (Drosophila); SMAD, mothers against DPP homolog 3 (Drosophila); Mothers against decapentaplegic homolog 3; Mothers against DPP homolog 3; Smad3
Gene ID	4088

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mRNA Refseq	NM_001145102
Protein Refseq	NP_001138574
MIM	603109
UniProt ID	P84022
Chromosome Location	15q21-q22
Function	R-SMAD binding; co-SMAD binding; double-stranded DNA binding; protein binding; transcription factor binding; transforming growth factor beta receptor; ubiquitin protein ligase binding; contributes to DNA binding; phosphatase binding; sequence-specific DNA binding transcription factor activity; RNA polymerase II activating transcription factor binding; beta-catenin binding; core promoter proximal region sequence-specific DNA binding; transcription regulatory region DNA binding; ligand-regulated transcription factor activity
PDBrendering based on 1dev.	