Recombinant Human SMAD3 protein, GST-tagged

Cat. No. SMAD3-295H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMAD3(C-terminal SXS deletion) fused with GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	SMAD3 is a direct mediator of transcriptional activation by the TGF receptor. The activity of SMAD3 is regulated by the TGF receptors, and SMAD3 is phosphorylated and associated with the ligand-bound receptor complex. TGF 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. SMAD3 containing a C-terminal truncation acts as a dominant-negative inhibitor of the normal TGF response. SMAD3 is a major physiologic substrate of the G1 cyclin-dependent kinases CDK4 and CDK2.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	84 kDa
Purity	> 85%
Applications	Western Blot

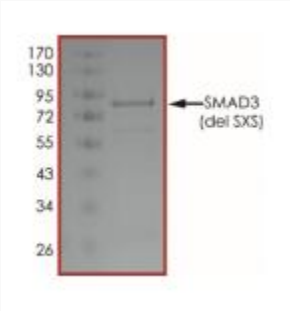
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	1 year at -70 centigrade from the date of shipment.
Storage	Store product at –70 centigrade. 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.
Concentration	0.1μg/μl

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;
Gene ID	4088
mRNA Refseq	NM_005902
Protein Refseq	NP_005893
MIM	603109
UniProt ID	P84022

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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
	

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