

Recombinant Human SMAD1, MYC/DDK-tagged

Cat. No. SMAD1-12H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SMAD1, transcript variant 2, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 mediates the signals of the bone morphogenetic proteins (BMPs), which are involved in a range of biological activities including cell growth, apoptosis, morphogenesis, development and immune responses. In response to BMP ligands, this protein can be phosphorylated and activated by the BMP receptor kinase. The phosphorylated form of this protein forms a complex with SMAD4, which is important for its function in the transcription regulation. This protein is a target for SMAD-specific E3 ubiquitin ligases, such as SMURF1 and SMURF2, and undergoes ubiquitination and proteasome-mediated degradation. Alternatively spliced transcript variants encoding the same protein have been observed.
Molecular Mass	52.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 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

Concentration >50 ug/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name SMAD1 SMAD family member 1 [Homo sapiens (human)]

Official Symbol SMAD1

Synonyms

SMAD1; SMAD family member 1; BSP1; JV41; JV4-1; MADH1; MADR1; Sma- and Mad-related protein 1; Mad-related protein 1; TGF-beta signaling protein 1; mothers against DPP homolog 1; SMAD, mothers against DPP homolog 1; MAD, mothers against decapentaplegic homolog 1; transforming growth factor-beta signaling protein 1; MAD, mothers against decapentaplegic homolog 1 (Drosophila); SMAD, mothers against DPP homolog 1 (Drosophila); Mothers against decapentaplegic homolog 1; hSMAD1; BSP-1; CMT2D; GARS; HMN5; Mad-related protein 1; SMAD 1; Transforming growth factor-beta-signaling protein 1

Gene ID 4086

mRNA Refseq NM_001003688

Protein Refseq NP_001003688

MIM 601595

UniProt ID Q15797

Chromosome Location 4q31

 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

Pathway	ALK1 signaling events; BMP receptor signaling; ErbB1 downstream signaling
Function	I-SMAD binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter sequence-specific DNA binding

 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