

Recombinant Human SMAD1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. SMAD1-333H Lot. No. (See product label)

SPECIFICATION

Product Overview	SMAD1 MS Standard C13 and N15-labeled recombinant protein (NP_001003688) with a C-terminal MYC/DDK tag, 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. [provided by RefSeq, Jul 2008]
Molecular Mass	52.3 kDa

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AA Sequence	MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEEELEKALS CPGQPSNCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDQLSHHEKPLECCEFP FGSKQKEVCINPYHYKRVESPVLPVLPVPRHSEYNPQHSLAQFRNLGQNEPHMPL NATFPDSFQQPNSHPPHSPNSSYPNSPGSSSSTYPHSPTSSDPGSPFQMPADTP PPAYLPPEDPMTQDGSQPMDTNMMAPPLPSEINRGDVQAVAYEEPKHWCSIVYYE LNNRVGEAFHASSTSVLDGFTDPSNNKNRFCLGLLSNVNRNSTIENTRRHIGKGVH LYYVGGEVYAECLSDSSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKIFNNQEFAQLL AQSVNHGFETVYELTKMCTIRMSFVKGWGAHEYHRQDVTSTPCWIEIHLHGPLQWLD KVLTQMGSPHNPISSVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	SMAD1 SMAD family member 1 [Homo sapiens (human)]
Official Symbol	SMAD1
Synonyms	SMAD1; SMAD family member 1; MAD, mothers against decapentaplegic homolog 1 (Drosophila), MADH1, SMAD, mothers against DPP homolog 1 (Drosophila); mothers against decapentaplegic homolog 1; JV4 1; MADR1; MAD homolog 1; Mad-related protein 1; TGF-beta signaling protein 1; mothers against DPP homolog 1; SMAD,

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mothers against DPP homolog 1; MAD, mothers against decapentaplegic homolog 1; transforming growth factor-beta signaling protein 1; transforming growth factor-beta-signaling protein 1; BSP1; JV41; BSP-1; JV4-1; MADH1;

Gene ID 4086

mRNA Refseq NM_001003688

Protein Refseq NP_001003688

MIM 601595

UniProt ID Q15797

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