

Recombinant Human SMAD4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SMAD4-1778H Lot. No. (See product label)

SPECIFICATION

Product Overview	SMAD4 MS Standard C13 and N15-labeled recombinant protein (NP_005350) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to transforming growth factor (TGF)-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins, which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The protein acts as a tumor suppressor and inhibits epithelial cell proliferation. It may also have an inhibitory effect on tumors by reducing angiogenesis and increasing blood vessel hyperpermeability. The encoded protein is a crucial component of the bone morphogenetic protein signaling pathway. The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer, juvenile polyposis syndrome, and hereditary hemorrhagic telangiectasia syndrome.
Molecular Mass	60.3 kDa

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AA Sequence

MDNMSITNTPTSNDACLSIVHSLMCHRQGGSETFAKRAIESLVKKLKEKKDELDSLITAITTNGAHPKCVTIQRTLDGRLQVAGRKGFPVHVIYARLWRWPD LHKNELKHVKYCQYAFDLKCDSVCVNPYHYERVVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQTIQHPPSNRASTETYSTPALLAPSES NATSTANFPNIPVASTSQPASILG GSHSEGLLQIASGPQPGQQQNGFTGQPATYHHNSTTTWTGSRTAPYTPNLP HHQNGHLQHHPMPPHPGHYWPVHNELAFQPPISNHPAPEYWCSIAYFEMDVQVGETFKVPSSCPIVTVDGYVDPSGGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECKGEGDVWVRCLSDHAVFVQSYLDREAGRAPGDAVHKIYPSAYIKVFDLRQCHRQMQQQAATAQAAAAAQA AAVAGNIPGPGSVGGIAP AISLSAAAGIGVDDLRRRLCILRMSFVKGWGPDYPRQSIKETPCWIEIHLHRALQLLDEV LHTMPIADPQPLDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

SMAD4 SMAD family member 4 [Homo sapiens (human)]

Official Symbol

SMAD4

Synonyms

SMAD4; SMAD family member 4; MAD, mothers against decapentaplegic homolog 4 (Drosophila), MADH4, SMAD, mothers against DPP homolog 4 (Drosophila); mothers

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against decapentaplegic homolog 4; DPC4; MAD homolog 4; SMAD, mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; deletion target in pancreatic carcinoma 4; mothers against decapentaplegic, Drosophila, homolog of, 4; JIP; MADH4; MYHRS;

Gene ID 4089

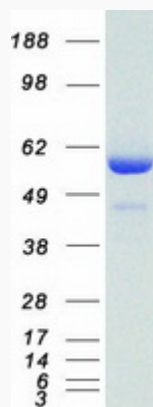
mRNA Refseq NM_005359

Protein Refseq NP_005350

MIM 600993

UniProt ID Q13485

SDS-PAGE



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