

Product information



SMAD2, 1- 467 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0307

Full name: Sma- and Mad-related protein 2 isoform 1

NCBI Accession No.: NP_005892

Synonyms: hMAD-2, hSMAD2, JV18, JV18-1, MADH2, MADR2

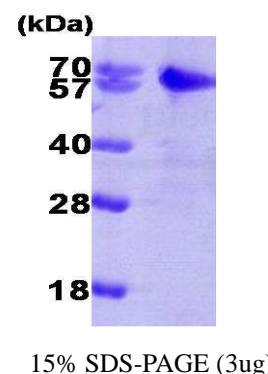
Description: SMAD2 (Mothers against decapentaplegic homolog 2) belongs to the SMAD family of proteins that mediate signal transduction by the TGF-beta/activin/BMP-2/4 cytokine superfamily from receptor Ser/Thr protein kinases at the cell surface to the nucleus. Phosphorylated Smad2 is then able to form a complex with Smad4 or SARA. These complexes accumulate in the cell nucleus, where they are directly participating in the regulation of gene expression. Recombinant SMAD2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 100 mM NaCl

Molecular Weight: 54.4 kDa (487aa)

Purity: > 95% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MSSILPFTPP VVKRLLGWKK SAGGSGGAGG GEQNGQEEKW CEKAVKSLVK KLKKTGRLDE LEKAITQNC NTKCVTIPST
CSEIWGLSTP NTIDQWDTTG LYSFSEQTRS LDGRLQVSHR KGLPHVIYCR LWRWPDHSH HELKAIENCE YAFNLKKDEV CVNPHYQQRV ETPVLPPVLV
PRHTEILTEL PPLDDYTHSI PENTNFPAGI EPQSNYIPET PPPGYISEDG ETSQQQLNQS MDTGSPAELS PTTLSPVNHS LDLQPVTYSE PAFWCSIAYY
ELNQRVGETF HASQPSLTVD GFTDPSNSER FCLGLLSNVN RNATVEMTRR HIGRQVRLYY IGGVFAECL SDSAIFVQSP NCNQRYGWHF ATVCKIPPGC
NLKIFNNQEF AALLAQSVNQ GFEAVYQLTR MCTIRMSFVK GWGAEYRRQT VTSTPCWIEL HLNGLPLQWLD KVLTMQGSPTS VRCSSMS

General references:

Bonni., *et al.* (2001) *Nat. Cell Biol.* 3(6): 587-95.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Wotton, *et al.* (1999) *Cell*. 97(1): 29-39.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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