

AR09188PU-N**Recombinant human SMAD2 (aa 1-467), His-tagged**

Alternate names:	JV18-1, MAD homolog 2, MADH2, MADR2, Mad-related protein 2, Mothers against DPP homolog 2, Mothers against decapentaplegic homolog 2, SMAD 2, SMAD family member 2, SMAD-2
Quantity:	0.1 mg
Concentration:	0.5 mg/ml (determined by Bradford assay)
Background:	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.
Uniprot ID:	Q15796
NCBI:	NP_005892
GeneID:	4087
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS - PAGE Buffer System: 20mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 20% glycerol
Description:	Recombinant SMAD2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: <u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MSSILPFTTP VVKRLLGWKK SAGGSGGAGG GEQNGQEEKW CEKAVKSLVK KLKKTGRLDE LEKAITQNC NTKCVTIPST CSEIWGLSTP NTIDQWDTTG LYSFSEQTRS LDGRLQVSHR KGLPHVIYCR LWRWPDLSH HELKAIENCE YAFNLKDEV CVNPHYQQRV ETPVLPPVLV PRHTEILTEL PPLDDYTHSI PENTNFPAGI EPQSNYIPET PPPGYISEDG ETSQQLNQS MDTGSPAELS PTLSPVNHS LDLQPVTYSE PAFWCSIAYY ELNQRVGETF HASQPSTLVD GFTDPSNSER FCLGLLSNVN RNATVEMTRR HIGRGVRLYY IGGEVFAECL SDSAIFVQSP NCNQRYGWHP ATVCKIPPGC NLKIFNNQEF AALLAQSVNQ GFEAVYQLTR MCTIRMSFVK GWGAEYRRQT VTSTPCWIEL HLNGLPLQWLD KVLTMGSPS VRCSSMS Molecular weight: 54.4 kDa (487 aa)
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Bonni., et al. (2001) Nat. Cell Biol. 3(6): 587-95.

Pictures:

SMAD2, 1- 467 aa human, His-tagged,
recombinant: 15% SDS-PAGE (3 µg)

