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## Recombinant human Smad2 protein

Catalog Number: ATGP0307

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-467aa

#### **UniProt No.**

015796

## **NCBI Accession No.**

NP 005892.1

## **Alternative Names**

Sma- and Mad-related protein 2 isoform 1, Sma- and Mad-related protein 2 isoform 1, hMAD-2, hSMAD2, JV18, JV18-1, MADH2, MADR2, Sma- and Mad-related protein 2 isoform 1 JV181, MAD, MAD Related Protein 2, SMAD2.

### **PRODUCT SPECIFICATION**

## **Molecular Weight**

54.4 kDa (487aa)

### **Concentration**

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

## **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

## Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **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



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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.

## **Amino acid Sequence**

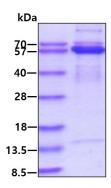
<MGSSHHHHHH SSGLVPRGSH> MSSILPFTPP VVKRLLGWKK SAGGSGGAGG GEQNGQEEKW CEKAVKSLVK KLKKTGRLDE LEKAITTQNC NTKCVTIPST CSEIWGLSTP NTIDQWDTTG LYSFSEQTRS LDGRLQVSHR KGLPHVIYCR LWRWPDLHSH HELKAIENCE YAFNLKKDEV CVNPYHYQRV ETPVLPPVLV PRHTEILTEL PPLDDYTHSI PENTNFPAGI EPQSNYIPET PPPGYISEDG ETSDQQLNQS MDTGSPAELS PTTLSPVNHS LDLQPVTYSE PAFWCSIAYY ELNQRVGETF HASQPSLTVD GFTDPSNSER FCLGLLSNVN RNATVEMTRR HIGRGVRLYY IGGEVFAECL SDSAIFVQSP NCNQRYGWHP ATVCKIPPGC NLKIFNNQEF AALLAQSVNQ GFEAVYQLTR MCTIRMSFVK GWGAEYRRQT VTSTPCWIEL HLNGPLQWLD KVLTQMGSPS VRCSSMS

#### **General References**

Bonni., et al. (2001) Nat. Cell Biol. 3(6): 587-95. Wotton, et al. (1999) Cell. 97(1): 29-39.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

