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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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Datasheet

SMAD1 (Human) Recombinant Protein (P01)

Catalog Number: H00004086-P01

Regulation Status: For research use only (RUO)

Product Description: Human SMAD1 full-length ORF (AAH01878.1, 1 a.a. - 465 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MNVTSLSFSFTSPAVKRLLGWKQGDEEEKWAEKAVDA
LVKLLKKKKGAMEELEKALSCPGQPSNCVTIPRSLDG
RLQVSHRKGPHVIYCRVWRWPDQLQSHHELKPLECC
EFPFGSKQKEVCINPYHYKRVEPVLPPVLVPRHSEY
NPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPNSH
PFPHSPNSSYPNSPGSSSSTYPHSPTSSDPGSPFQM
PADTPPPAYLPPEDPMTQDGSQPMDTNMMAPLPSEI
NRGDVQAVAYEEPKHWCSIVYYELNRRVGEAFHASST
SVLVDGFTDPSNKNRFLGLLSNVNRNSTIENTRRHI
GKGVHLYYVGGEVYAECLSDSSIFVQSRNCNYHHGFH
PTTVCKIPSGCSLKIFNNQEFQAQLLAQSVNHGFETVYE
LTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHG
PLQWLDKVLTMGSPHNPISSVS

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 76.89

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4086

Gene Symbol: SMAD1

Gene Alias: BSP1, JV4-1, JV41, MADH1, MADR1

Gene Summary: 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]

References:

1. Simultaneous imaging and restoration of cell function using cell permeable peptide probe. Suh JS, Lee JY, Lee G, Chung CP, Park YJ Biomaterials. 2014 May 12. pii: S0142-9612(14)00443-8. doi: 10.1016/j.biomaterials.2014.04.045.
2. Identification of Substrates of SMURF1 Ubiquitin Ligase Activity Utilizing Protein Microarrays. Andrews PS, Schneider S, Yang E, Michaels M, Chen H, Tang J, Emkey R. Assay Drug Dev Technol (2010), DOI: 10.1089/adt.2009.0264