

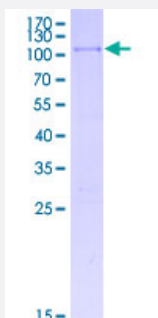
Full-Length

SMAD6 (Human) Recombinant Protein (P01)

Catalog # H00004091-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human SMAD6 full-length ORF (AAH12986.1, 1 a.a. - 496 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MFRSKRSGLVRRLLWRSRVVPDREEGGSGGGGGGDEEDGSLGSRAEPAPRAREGGGCGRSEVR
PVAPRRPRDAVGQGAQAGARRRRAGGPPRPMSEPGAGAGSSLLDVAEPGGPGWLPESDCE
TVTCLFSEERDAAGAPRDASDPLAGAALEPAGGGRSREARSRLLLLEQELKTVTYSLLKRLKER
SLDTLLEAVESRGGVPGGCVLVPRADLRLGGQPAPPQLLLGRFWRPDLQHAVELKPLCGCHS
FAAADGPTVCCNPYHFSRLCGPESPPPPYSRLSPRDEYKPLDLSDSTLSYTETEATNSLITAPG
EFSDASMSPDATKPSHWCSVAYWEHRTRVGRLYAVYDQAVSIFYDLPQGS GFCLGQLNLEQRS
ESVRRTRSKIGFGILLSKEPDGVWAYNRGEHPIFVNSPTLDAPGGRALVVRKVPPGYSIKVDFER
SGLQHAPEPDAAADGPYPNSVRISFAKGWGPCYSRQFITSCPCWLEILLNNPR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

80.96

Interspecies Antigen Sequence

Mouse (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue

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.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SMAD6

Entrez GeneID	4091
GeneBank Accession#	BC012986.2
Protein Accession#	AAH12986.1
Gene Name	SMAD6
Gene Alias	HsT17432, MADH6, MADH7
Gene Description	SMAD family member 6
Omim ID	602931
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the SMAD family of proteins, which are related to <i>Drosophila</i> 'mothers against decapentaplegic' (Mad) and <i>C. elegans</i> Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions in the negative regulation of BMP and TGF-beta/activin-signalling. Multiple transcript variants encoding different isoforms have been found for this gene
Other Designations	MAD (mothers against decapentaplegic, <i>Drosophila</i>) homolog 6 MAD, mothers against decapentaplegic homolog 6 Mothers against decapentaplegic, <i>drosophila</i> , homolog of, 6 SMAD, mothers against DPP homolog 6

Pathway

- [TGF-beta signaling pathway](#)

Disease

- [Anemia](#)
- [Bacteremia](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Keloid](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)