

Datasheet for ABIN7546102

SMAD6 Protein (AA 1-496) (His tag)



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Overview

Quantity:	1 mg
Target:	SMAD6
Protein Characteristics:	AA 1-496
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SMAD6 Protein expressed in mammalian cells.
Sequence:	<p>MFRSKRSLV RRLWRSRVVP DREEGSGGG GGGDEDGSLG SRAEPAPRAR EGGGCGRSEV RPVAPRRPRD AVGQRGAQGA GRRRRAGGPP RPMSEPGAGA GSSLLDVAEP GPGWLPESD CETVTCCLFS ERDAAGAPRD ASDPLAGAAL EPAGGGRSRE ARSRLLLLEQ ELKTVTYSLL KRLKERSLDT LLEAVESRGG VPGGCVLVPR ADLRLGGQPA PPQLLLGRLF RWPDLQHAVE LKPLCGCHSF AAAADGPTVC CNPYHFSRLC GPESPPPPYS RLSPRDEYKP LDLS DSTLSY TETEATNSLI TAPGEFSDAS MSPDATKPSH WCSVAYWEHR TRVGRLYAVY DQAVSIFYDL PQSGGFCLGQ LNLEQRSESV RRTRSKIGFG ILLSKEPDGV WAYNRGEHPI FVNSPTLDAP GGRALVVRKV PPGYSIKVFD FERGLQHAP EPDAADGPYD PNSVRISFAK GWGPCYSRQF ITSCPCWLEI LLNNPR</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

SMAD6

Alternative Name:

SMAD6 ([SMAD6 Products](#))

Background:

Mothers against decapentaplegic homolog 6 (MAD homolog 6) (Mothers against DPP homolog 6) (SMAD family member 6) (SMAD 6) (Smad6) (hSMAD6), FUNCTION: Transforming growth factor-beta superfamily receptors signaling occurs through the Smad family of intracellular mediators. SMAD6 is an inhibitory Smad (i-Smad) that negatively regulates signaling downstream of type I transforming growth factor-beta (PubMed:9436979, PubMed:16951688, PubMed:22275001, PubMed:9759503, PubMed:10647776, PubMed:10708948, PubMed:10708949, PubMed:30848080). Acts as a mediator of TGF-beta and BMP anti-inflammatory activities. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B-mediated expression of pro-inflammatory genes (PubMed:16951688). Blocks the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding (PubMed:9436979, PubMed:30848080). Binds to regulatory elements in target promoter regions (PubMed:16491121). {ECO:0000269|PubMed:16491121, ECO:0000269|PubMed:16951688,

Target Details

	ECO:0000269 PubMed:22275001, ECO:0000269 PubMed:30848080, ECO:0000269 PubMed:9436979, ECO:0000303 PubMed:10647776, ECO:0000303 PubMed:10708948, ECO:0000303 PubMed:10708949, ECO:0000303 PubMed:9759503}.
Molecular Weight:	53.5 kDa
UniProt:	O43541
Pathways:	Chromatin Binding

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months