

Product datasheet

Recombinant Human SMAD6 protein ab158843

1 Image

Description

| | | |
|--------------------------|---|--|
| Product name | Recombinant Human SMAD6 protein | |
| Expression system | Wheat germ | |
| Protein length | Protein fragment | |
| Animal free | No | |
| Nature | Recombinant | |
| Species | Human | |
| Sequence | RDEYKPLDLS DSTLSYTETEATNSLITAPGEFSDASMSPD ATKPSHWCSV AYWEHRTRVGRLYAVYDQAVSIFYDLPQGSGFCLGQLNLE QRSESVRRTR | |
| Amino acids | 285 to 384 | |
| Tags | GST tag N-Terminus | |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab158843** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|---------------------|--------------|
| Applications | ELISA |
| | Western blot |
| Form | Liquid |

Additional notes

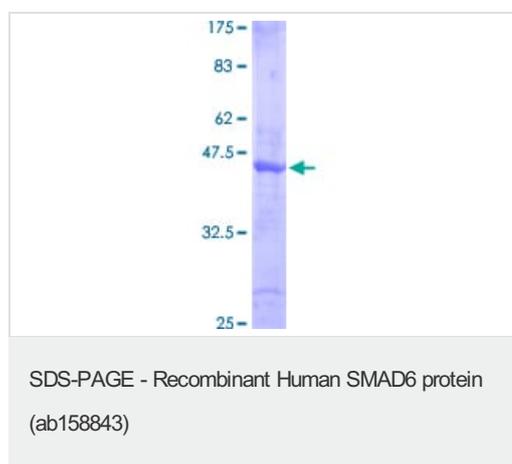
Preparation and Storage

| | |
|------------------------------|---|
| Stability and Storage | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. |
| | pH: 8.00 |
| | Constituents: 0.31% Glutathione, 0.79% Tris HCl |

General Info

| | |
|---|---|
| Function | Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members; has been shown to inhibit selectively BMP (bone morphogenetic proteins) signaling by competing with the co-SMAD SMAD4 for receptor-activated SMAD1. SMAD6 is an inhibitory SMAD (I-SMAD) or antagonistic SMAD. Binds to regulatory elements in target promoter regions. |
| Tissue specificity | Ubiquitous in various organs, with higher levels in lung. Isoform B is up-regulated in diseased heart tissue. |
| Sequence similarities | Belongs to the dwarfin/SMAD family. Contains 1 MH1 (MAD homology 1) domain. Contains 1 MH2 (MAD homology 2) domain. |
| Post-translational modifications | Phosphorylated by BMP type 1 receptor kinase and by PRKX. Ubiquitinated by WWP1. |
| Cellular localization | Nucleus. |

Images



ab158843 on a 12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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