

## SMAD9 recombinant protein

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|                              |                       |                                     |
|------------------------------|-----------------------|-------------------------------------|
| CATALOG #<br><b>AAA72914</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|-----------------------|-------------------------------------|

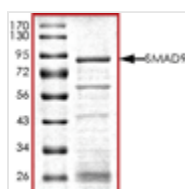
### PRODUCT SYNONYMS

SMAD9; SMAD9 recombinant protein; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E Coli                                                                                                                                                                                                                                                                          |
| Purity/Purification                                   | >70%                                                                                                                                                                                                                                                                            |
| Form/Format                                           | 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                           |
| Concentration                                         | 0.2ug/ul (varies by lot)                                                                                                                                                                                                                                                        |
| Sequence Length                                       | 5592                                                                                                                                                                                                                                                                            |
| Applicable Applications for SMAD9 recombinant protein | WB (Western Blot)                                                                                                                                                                                                                                                               |
| Type                                                  | Recombinant Fusion Protein                                                                                                                                                                                                                                                      |
| Species                                               | Human                                                                                                                                                                                                                                                                           |
| Tag Information                                       | GST tag                                                                                                                                                                                                                                                                         |
| Expression System                                     | E.coli                                                                                                                                                                                                                                                                          |
| Source Note                                           | Recombinant full-length human SMAD9 was expressed by baculovirus in E.coli cells                                                                                                                                                                                                |
| Dry Ice Note                                          | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                                                              |
| Preparation and Storage                               | Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.<br>Shipping: Ships with Dry Ice. |

### IMAGES



#### SDS-PAGE

The purity of SMAD9 was determined to be >70% by densitometry. Approx. MW 86kDa

## ADDITIONAL INFORMATION

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for SMAD9 recombinant protein</b> | <p>Recombinant full-length human SMAD9 was expressed by baculovirus in E.coli cells using an N-terminal GST tag.</p> <p><b>Scientific Background:</b> SMAD9 or SMAD family member 9 is a member of the SMAD family. SMAD9 transduces signals from TGF-beta family members which regulate growth, differentiation, apoptosis, and development. SMAD9 is activated by bone morphogenetic proteins and it interacts with SMAD4 (1). SMAD9 positively and negatively regulate BMP signaling, respectively. SMAD9, also known as SMAD8 may play a role in both pulmonary hypertension and lung tumorigenesis (2). Mutations in SMAD9 in patient with pulmonary arterial hypertension (PAH) have been identified and this may be involved in the pathogenesis of PAH.</p> |
| <b>Product Categories/Family for SMAD9 recombinant protein</b>   | <a href="#">Transcription Proteins</a> ; <a href="#">Signaling Proteins - Transcription Proteins</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>References</b>                                                | <p>1. Nishita, M. et.al: Smad8B, a Smad8 splice variant lacking the SSXS site that inhibits Smad8-mediated signalling. Genes Cells 4: 583-591, 1999.</p> <p>2. Huang, Z. et.al: Defective pulmonary vascular remodeling in Smad8 mutant mice. Hum. Molec. Genet. 18: 2791-2801, 2009.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">284507301</a>                                                                                                                                 |
| <b>NCBI GeneID</b>                      | <a href="#">4093</a>                                                                                                                                      |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001127217</a>                                                                                                                              |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001127217</a>                                                                                                                              |
| <b>UniProt Accession #</b>              | <a href="#">O15198</a> ; <a href="#">O14989</a> ; <a href="#">Q5TBA1</a> ; <a href="#">A2A2Y6</a>                                                         |
| <b>Molecular Weight</b>                 | ~86 kDa                                                                                                                                                   |
| <b>NCBI Official Full Name</b>          | Homo sapiens SMAD family member 9 (SMAD9), transcript variant a, mRNA                                                                                     |
| <b>NCBI Official Synonym Full Names</b> | SMAD family member 9                                                                                                                                      |
| <b>NCBI Official Symbol</b>             | SMAD9                                                                                                                                                     |
| <b>NCBI Official Synonym Symbols</b>    | PPH2; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B                                                                                                                 |
| <b>NCBI Protein Information</b>         | mothers against decapentaplegic homolog 9; MAD homolog 9; SMAD, mothers against DPP homolog 9; Mothers against decapentaplegic, drosophila, homolog of, 9 |
| <b>UniProt Protein Name</b>             | Mothers against decapentaplegic homolog 9                                                                                                                 |
| <b>UniProt Gene Name</b>                | <b>SMAD9</b>                                                                                                                                              |
| <b>UniProt Synonym Gene Names</b>       | MADH6; MADH9; MAD homolog 9; Mothers against DPP homolog 9; SMAD 9; Smad9                                                                                 |
| <b>UniProt Entry Name</b>               | SMAD9_HUMAN                                                                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
 Online datasheet: <https://www.aaabiotech.com/smad9-recombinant-protein-e-coli-wb-western-blot/72914>