

Recombinant Human SMAD9, GST-tagged

Cat. No. SMAD9-234H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human SMAD9 was expressed by baculovirus in E.coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	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. SMAD9 positively and negatively regulate BMP signaling, respectively. SMAD9, also known as SMAD8 may play a role in both pulmonary hypertension and lung tumorigenesis. Mutations in SMAD9 in patient with pulmonary arterial hypertension (PAH) have been identified and this may be involved in the pathogenesis of PAH.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~86 kDa
Purity	>70% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. 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.
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Concentration	0.2 µg/µl
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GENE INFORMATION

Gene Name	SMAD9 SMAD family member 9 [Homo sapiens]
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Official Symbol	SMAD9
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Synonyms	SMAD9; SMAD family member 9; MAD, mothers against decapentaplegic homolog 9 (Drosophila) , MADH6, MADH9, SMAD, mothers against DPP homolog 9 (Drosophila); mothers against decapentaplegic homolog 9; MAD homolog 9; SMAD, mothers against DPP homolog 9; Mothers against decapentaplegic, drosophila, homolog of, 9; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B;
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Gene ID	4093
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mRNA Refseq	NM_001127217
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Protein Refseq	NP_001120689
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MIM	603295
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UniProt ID	O15198
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Chromosome Location	13q12-q14
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Pathway

ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; TGF Beta Signaling Pathway, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem;

Function

sequence-specific DNA binding transcription factor activity; transforming growth factor beta receptor, pathway-specific cytoplasmic mediator activity;

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