

Datasheet for ABIN6700541  
**SMAD9 Protein (GST tag)**



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## Overview

Quantity:	20 µg
Target:	SMAD9
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD9 protein is labelled with GST tag.
Application:	Western Blotting (WB)

## Product Details

Purpose:	SMAD9 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human SMAD9 was expressed by baculovirus in E.coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Purity:	>70%

## Target Details

Target:	SMAD9
Alternative Name:	SMAD9 ( <a href="#">SMAD9 Products</a> )
Background:	Synonyms: MADH6, MADH9, SMAD8, SMAD8A, SMAD8B, Mothers against decapentaplegic homolog 9, MAD homolog 9, Mothers against DPP homolog 9, SMAD family member 9 Background: SMAD9 or SMAD family member 9 is a member of the SMAD family. SMAD9

## Target Details

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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. SMAD9 Protein is ideal for investigators involved in Signaling Proteins, Transcription Proteins, AKT/PKB Pathway, Angiogenesis, Cancer, Cell Cycle, Cellular Stress, ERK/MAPK Pathway, Inflammation, JAK/STAT Pathway, JNK/SAPK Pathway, NfκB Pathway, and WNT Signaling research.

NCBI Accession: [NM\\_001127217](#)

## Application Details

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Application Notes: Western\_Blot\_Dilution: User Optimized  
Application\_Note: SMAD9 Protein is suitable for use in Western Blot. Expect a band approximately ~86 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 0.2 µg/µL

Buffer: SMAD9 Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°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.

Expiry Date: 12 months