

Datasheet for ABIN6700549  
**SMAD5 Protein (GST tag)**



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## Overview

Quantity:	20 µg
Target:	SMAD5
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMAD5 protein is labelled with GST tag.
Application:	Western Blotting (WB)

## Product Details

Purpose:	SMAD5 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human SMAD5 was expressed in E. coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >85% by densitometry.
Purity:	>85%

## Target Details

Target:	SMAD5
Alternative Name:	SMAD5 ( <a href="#">SMAD5 Products</a> )
Background:	Synonyms: Dwfc, JV5-1, MADH5, DKFZp781C1895, DKFZp781O1323, Mothers against decapentaplegic homolog 5, MAD homolog 5, Mothers against DPP homolog 5, JV5-1, SMAD family member 5

## Target Details

Background: SMAD5 is a member of the SMAD family and mediates signaling by the transforming growth factor-beta (TGFβ) superfamily and related ligands (1). SMAD5 plays a critical role in the signaling pathway by which TGFβ inhibits the proliferation of human hematopoietic progenitor cells. SMAD5 is up-regulated in gastric epithelial cells during the infection of the pathogen Helicobacter pylori and it mediates apoptosis of gastric epithelial cells induced by H. pylori infection (2). In mature human B cells, bone morphogenetic protein 6 (BMP-6) inhibits cell growth and rapidly induces phosphorylation of SMADs 5 and 8. SMAD5 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\\_005903](#)

## Application Details

Application Notes: Western\_Blot\_Dilution: User Optimized  
Other: Kinase Assay-User Optimized  
Application\_Note: SMAD5 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~82 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

## Handling

Format: Liquid  
Concentration: 0.2 µg/µL  
Buffer: SMAD5 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 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