

Datasheet for 009-001-T42S**SMAD9 protein-GST fusion****Overview**

Description:	SMAD9 recombinant protein-GST fusion protein - 009-001-T42S
Item No.:	009-001-T42S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	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. 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.
Synonyms:	MADH6, MADH9, SMAD8, SMAD8A, SMAD8B, Mothers against decapentaplegic homolog 9, MAD homolog 9, Mothers against DPP homolog 9, SMAD family member 9
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	SMAD9
Purity/Specificity:	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.
Relevant Links:	• NCBI - NM_001127217

Application Details

Application Note:	SMAD9 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. SMAD9 Protein is suitable for use in Western Blot. Expect a band approximately ~86kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

