

Datasheet for 009-001-T19S**RGS1 protein-HIS Epitope****Overview**

Description:	RGS1 recombinant protein-HIS Epitope - 009-001-T19S
Item No.:	009-001-T19S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	RGS1 is a member of the regulator of G-protein signaling family and attenuates the signaling activity of G-proteins. RGS1 binds to activated GTP-bound G alpha subunit and acts as a GTPase activating protein (GAP) thereby increasing the rate of conversion of GTP to GDP and terminating the signal (1). RGS1 is extensively up-regulated in renal cell carcinoma (RCC) tissues and melanoma. In melanoma, RGS1 expression is significantly correlated with increased tumor thickness, mitotic rate and presence of vascular involvement. Furthermore, there is significant association between increasing RGS1 expression and reduced relapse-free survival as well as disease-specific survival (DSS) survival (2). RGS1 Protein is ideal for investigators involved in Signaling Proteins, G-Proteins, AKT/PKB Pathway, Cancer, Cell Cycle, ERK/MAPK Pathway, Inflammation, JNK/SAPK Pathway, p38 Pathway, and PKA/PKC Pathway research.
Synonyms:	IR20, IER1, 1R20, BL34, Regulator of G-protein signaling 1, RGS1, B-cell activation protein BL34, Early response protein 1R20
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	RGS1
Purity/Specificity:	Recombinant full-length human RGS1 Protein was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >90% by densitometry.
Relevant Links:	• NCBI - BC015510

Application Details

Application Note:	RGS1 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. RGS1 Protein is suitable for use in Western Blot. Expect a band approximately ~26kDa 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.

