

Datasheet for 009-001-S05S**HRAS1 (G12V) protein-HIS Epitope****Overview**

Description:	HRAS1 (G12V) recombinant protein-HIS Epitope - 009-001-S05S
Item No.:	009-001-S05S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	The RAS gene superfamily encodes a group of closely related 21,000 dalton (p21) proteins with special affinity for guanine nucleotides (GTP). RAS and several other cellular proteins with similar biochemical properties are collectively known as G-proteins and they play key roles in a wide variety of cellular activities, including cell growth, differentiation, secretion, and protein trafficking (1). There are three forms of RAS gene in cells termed H-RAS, N-RAS, and K-RAS. RAS proteins play a direct causal role in human cancer and in other diseases. Mutant H-RAS, N-RAS, and K-RAS occur in varying frequencies in different tumor types (2). Other members of the RAS superfamily may also contribute to cancer. HRAS1 (G12V) Protein is ideal for investigators involved in Signaling Proteins, G-Proteins, Apoptosis/Autophagy, Cancer, Cell Cycle, and Ser/Thr Kinase research.
Synonyms:	C-BAS/HAS, C-H-RAS, C-HA-RAS1, CTLO, H-RAS1DX, HAMSV, HRAS, K-RAS, N-RAS, RASH1, GTPase Hras, H-Ras-1, Ha-Ras, Transforming protein p21, c-H-ras, p21ras
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	HRAS
Purity/Specificity:	Recombinant human RAS1 (2-186) was expressed in E.coli cells using an N-Terminal his epitope. The purity was determined to be >95% by densitometry.
Relevant Links:	<ul style="list-style-type: none">• NCBI - NM_005343

Application Details

Application Note:	HRAS1 (G12V) Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. HRAS1 (G12V) Protein is suitable for use in Western Blot. Expect a band approximately ~23kDa 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:	0.1 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.

