

Datasheet for ABIN6700443 HRAS Protein (GST tag)



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Overview

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

Product Details

Purpose:	RAS recombinant protein-GST fusion protein
Purification:	Recombinant full length human RAS was expressed in E.coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Purity:	>95%

Target Details

Target:	HRAS
Alternative Name:	HRAS (HRAS Products)
Background:	Synonyms: K-ras, N-ras, RASH1, c-bas/has, Harvey rat sarcoma viral oncogene homolog 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

Target Details

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. RAS Protein is ideal for investigators involved in Signaling Proteins, G-Proteins, Angiogenesis, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, ERK/MAPK Pathway, Invasion/Metastasis, and Neurobiology research.

NCBI Accession: [NM_005343](#)

Pathways: [p53 Signaling](#), [MAPK Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Hepatitis C](#), [Autophagy](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [Regulation of long-term Neuronal Synaptic Plasticity](#), [VEGF Signaling](#), [BCR Signaling](#)

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Other: Kinase Assay-User Optimized
Application_Note: RAS Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~47 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: RAS Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 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.

Handling

Expiry Date: 12 months