

Datasheet for ABIN6700846

**HRAS Protein (Gly12Val-Mutant) (His tag)**[Go to Product page](#)

## Overview

Quantity:	20 µg
Target:	HRAS
Protein Characteristics:	Gly12Val-Mutant
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HRAS protein is labelled with His tag.
Application:	Western Blotting (WB)

## Product Details

Purpose:	HRAS1 (G12V) recombinant protein-HIS Epitope
Purification:	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.
Purity:	>95%

## Target Details

Target:	HRAS
Alternative Name:	HRAS ( <a href="#">HRAS Products</a> )
Background:	Synonyms: C-BAS/HAS, C-H-RAS, C-HA-RAS1, CTLO, H-RASIDX, HAMS, HRAS, K-RAS, N-RAS, RASH1, GTPase Hras, H-Ras-1, Ha-Ras, Transforming protein p21, c-H-ras, p21ras Background: The RAS gene superfamily encodes a group of closely related 21,000 dalton (p21)

## Target Details

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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.

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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

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Application Notes: Western\_Blot\_Dilution: User Optimized  
Application\_Note: HRAS1 (G12V) Protein is suitable for use in Western Blot. Expect a band approximately ~23 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 0.1 µg/µL

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Buffer: HRAS1 (G12V) Protein is stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.

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Storage: -80 °C

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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.

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Expiry Date: 12 months