

Recombinant Human HRAS, GST-tagged

Cat. No. HRAS-383H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full-length human RAS was expressed in *E. coli* cells using a N-terminal GST tag. MW = 47 kDa.

Species Human

Source E.coli

Description 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. 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. Other members of the RAS superfamily may also contribute to cancer.

Sequence Full-length.

Applications Kinase Assay, Western Blot.

Storage And Stability 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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GENE INFORMATION

Gene Name	HRAS v-Ha-ras Harvey rat sarcoma viral oncogene homolog [Homo sapiens]
Synonyms	v-Ha-ras Harvey rat sarcoma viral oncogene homolog; CTLO; HAMSVM; HRAS1; K-RAS; N-RAS; RASH1; C-H-RAS; H-RASIDX; C-BAS/HAS; C-HA-RAS1; HRAS; GTPase HRas; OTTHUMP00000162769; OTTHUMP00000166053; OTTHUMP00000166055; p19 H-RasIDX protein; c-has/bas p21 protein; transforming protein p21; Ha-Ras1 proto-oncoprotein; c-ras-Ki-2 activated oncogene; GTP- and GDP-binding peptide B; transformation gene: oncogene HAMSVM; Ras family small GTP binding protein H-Ras; H-Ras-1; Ha-Ras; c-H-ras; p21ras
Gene ID	3265
mRNA Refseq	NM_001130442
Protein Refseq	NP_001123914
MIM	190020
UniProt ID	P01112
Chromosome Location	11p15.5
Pathway	Acute myeloid leukemia; Axon guidance; B cell receptor signaling pathway; Bladder cancer; Chemokine signaling pathway; Chronic myeloid leukemia; Endocytosis; Endometrial cancer; ErbB signaling pathway; Fc epsilon RI signaling pathway; Focal adhesion; Gap junction; Glioma; GnRH signaling pathway; Insulin signaling pathway; Long-term depression; Long-term potentiation MAPK signaling pathway; Melanogenesis; Melanoma; Natural killer cell mediated cytotoxicity; Neurotrophin

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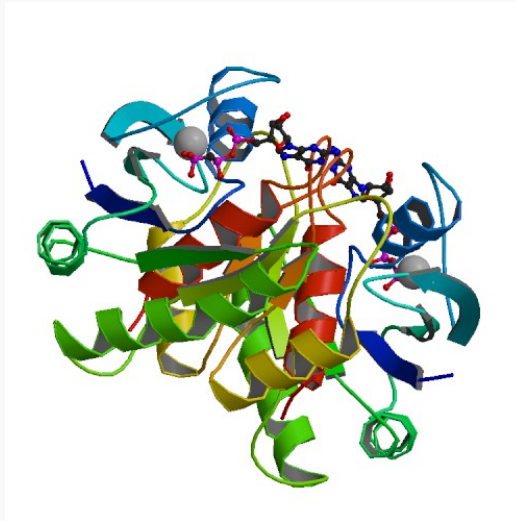
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signaling pathway; Non-small cell lung cancer; Pathways in cancer; Prostate cancer; Regulation of actin cytoskeleton; Renal cell carcinoma; T cell receptor signaling pathway; Thyroid cancer; Tight junction; VEGF signaling pathway

Function

GTP binding; GTPase activity; nucleotide binding; protein C-terminus binding

PDB rendering based on 121p.



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