

Recombinant Human RALB, GST-tagged

Cat. No. RALB-117H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RALB fused with a GST tag, was expressed in E. Coli.
Species	Human
Source	E.coli
Description	Ra1B is a member of the Ras-like GTP binding protein family. Ras proteins provide a crucial link in the intracellular signalling cascades. Ras proteins are members of the small G protein family. These proteins are characterized by a molecular weight between 20 and 30 kDa, the ability to bind GTP or GDP and a low intrinsic GTPase activity. These proteins relay signals from the plasma membrane activated by receptor tyrosine kinases to the nucleus via a network of serine/threonine kinases. Ras proteins belong to a family of approximately 40 mammalian and 60 non-mammalian proteins. Ras proteins were first discovered as the hyperactive products of mutant Ras genes which promote cancer by disrupting the normal controls on cell proliferation and differentiation; about 30% of human cancers have mutations in a Ras gene. Ras and Ras-like proteins function as switches, cycling between 2 distinct conformational states, active when GTP is bound and inactive when GDP is bound. Affinity precipitation assays can be used to determine the activation status of Ras and Ras-like family members. This assay is based on the ability of the Ras family effector proteins to interact specifically with the activated GTP-bound form of their target GTPases.
Form	Provided in 50mM Tris (pH 7.5) solution containing 150 mM NaCl, 10 mM MgCl ₂ , 1

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mM DTT, 10% glycerol

Applications

Affinity Binding; Ral B protein is provided as a functional G-protein and can be used as a Western blot control for antibodies to Ral B protein or in assays to study to protein-protein interactions of Ral B and related proteins with regulatory proteins.

Storage

Product should be stored at -70°C. Aliquot to avoid freeze/thaw cycles

GENE INFORMATION

Gene Name

RALB v-ral simian leukemia viral oncogene homolog B (ras related; GTP binding protein) [Homo sapiens]

Official Symbol

RALB

Synonyms

RALB; v-ral simian leukemia viral oncogene homolog B (ras related; GTP binding protein); ras-related protein Ral-B; RAS-like protein B; GTP binding protein;

Gene ID

5899

mRNA Refseq

NM_002881

Protein Refseq

NP_002872

MIM

179551

UniProt ID

P11234

Chromosome Location

2q14.2

Pathway

CXCR4-mediated signaling events, organism-specific biosystem; EGFR1 Signaling

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Pathway, organism-specific biosystem; NGF signalling via TRKA from the plasma membrane, organism-specific biosystem; Pancreatic cancer, organism-specific biosystem; Pancreatic cancer, conserved biosystem; Pathways in cancer, organism-specific biosystem; Signal Transduction, organism-specific biosystem;

Function

GTP binding; GTP binding; GTPase activity; GTPase activity; nucleotide binding; protein binding;

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