

Recombinant Human Ras Homolog Enriched in Brain, T7-Tagged

Cat. No. RHEB-393H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RheB protein, fused to T7-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 21.7 kDa (197 aa).
Species	Human
Source	E.coli
ProteinLength	1-181 a.a.
Description	Ras homolog enriched in brain (RheB) is a member of the Ras superfamily that was originally identified as an immediate-early gene in brain but is also widely expressed in other tissues. RheB encodes a lipid-anchored, cell membrane protein with five repeats of the RAS-related GTP-binding region. RheB is vital in regulation of growth and cell cycle progression due to its role in the insulin/TOR/S6K signaling pathway.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT 10% glycerol.
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MASMTGGQQM GRGSASMPQS KSRKIALGY RSVGKSSLTI QFVEGQFVDS YDPTIENTFT KLITVNGQEY HLQLVDTAGQ DEYSIFPQTY SIDINGYIL V

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YSVTSIKSFE VIKVIHGKLL DMVGKVQIPI MLVGNKKDLH MERVISYEEG
KALAESWNAA FLESSAKENQ TAVDVFRRII LEAEKMDGAA SQGKSSC

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Insulin signaling pathway; mTOR signaling pathway; Signaling by Insulin receptor

GENE INFORMATION

Gene Name

RHEB Ras homolog enriched in brain [Homo sapiens]

Synonyms

Ras homolog enriched in brain; RHEB2; MGC111559; RHEB; GTP-binding protein Rheb; Ras homolog enriched in brain 2; Ras homolog enriched in brain.

Gene ID

6009

mRNA Refseq

NM_005614

Protein Refseq

NP_005605

MIM

601293

UniProt ID

Q15382

**Chromosome
Location**

7q36

Function

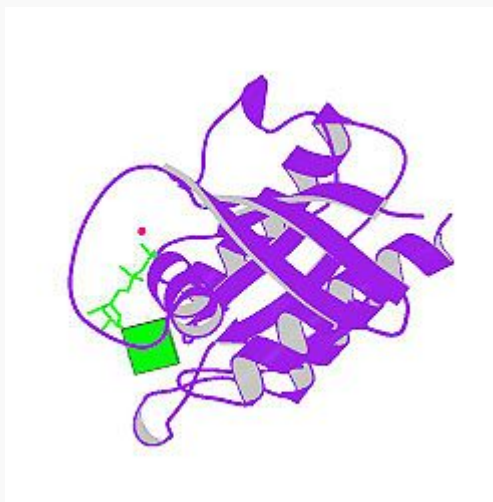
GTP binding; GTPase activity; nucleotide binding.

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PDB rendering based
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1xtr, 1xts



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