

Recombinant Human Ras Homolog Enriched In Brain, GST-tagged

Cat. No. RHEB-1144H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	Recombinant human Rheb expressed in <i>E.coli</i> as fusion protein with GST. The eukaryotic translational machinery is under tight control by environmental and metabolic cues including ambient nutrients, hormonal regulation and the energy status of the cell itself. The Ras-related small GTPase Rheb (Ras homologue enriched in brain) acts as a pivotal player upstream of mTOR and p70S6K to regulate global as well as selective protein translation in response to the above mentioned factors.
Usage	For in vitro use only.
Form	Liquid. Supplied in 25 mM HEPES pH 7.4, 5 mM MgCl ₂ , 10 µM GTP, 50 % glycerol.
Purity	> 95% by SDS-PAGE.
Storage	Quality guaranteed for 12 months, Store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

Gene Name	RHEB Ras homolog enriched in brain [<i>Homo sapiens</i>]
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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
Pathway	Insulin signaling pathway; mTOR signaling pathway; Signaling by Insulin receptor
Function	GTP binding; GTPase activity; nucleotide binding

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