

Recombinant Human RHEB, His-tagged

Cat. No. RHEB-31324TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RHEB full length protein (Human) with N-terminal His tag, MW ~21kDa.Expressed using baculovirus in Sf9 cells.
Species	Human
Description	This gene is a member of the small GTPase superfamily and encodes a lipid-anchored, cell membrane protein with five repeats of the RAS-related GTP-binding region. This protein is vital in regulation of growth and cell cycle progression due to its role in the insulin/TOR/S6K signaling pathway. The protein has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form, and farnesylation of the protein is required for this activity. Three pseudogenes have been mapped, two on chromosome 10 and one on chromosome 22.
Conjugation	HIS
Tissue specificity	Ubiquitous. Highest levels observed in skeletal and cardiac muscle.
Form	Liquid
Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.2mM DTT, pH 7.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequence Similarities Belongs to the small GTPase superfamily. Rheb family.

Full Length Full L.

GENE INFORMATION

Gene Name RHEB Ras homolog enriched in brain [Homo sapiens]

Official Symbol RHEB

Synonyms RHEB; Ras homolog enriched in brain; Ras homolog enriched in brain 2 , RHEB2; GTP-binding protein Rheb;

Gene ID 6009

mRNA Refseq NM_005614

Protein Refseq NP_005605

MIM 601293

Uniprot ID Q15382

Chromosome Location 7q36

Pathway Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem;

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Function

GTP binding; GTPase activity; metal ion binding; nucleotide binding;

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