

Recombinant Human RHEB

Cat. No. RHEB-31326TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RHEB with proprietary tag; MWt 47 kDa.
Species	Human
Source	E.coli
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.
Tissue specificity	Ubiquitous. Highest levels observed in skeletal and cardiac muscle.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Glycerol, 5mM Magnesium chloride, 25mM HEPES, 0.01mM GDP, pH 7.4
Storage	Aliquot and store at -80°C. Avoid repeated 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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