

Recombinant Full Length Human Ras Homolog Enriched In Brain / RHEB Protein, His-tagged

Cat. No. RHEB-384H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human RHEB was expressed using <i>baculovirus</i> in <i>Sf9</i> cell/s using a N-terminal His tag. MW = 21kDa.
Species	Human
Source	Sf9 Cells
Protein Length	1-184 a.a.
Description	RHEB 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. RHEB is vital in the regulation of growth and cell cycle progression. RHEB has GTPase activity and shuttles between a GDP-bound form and a GTP-bound form. <i>Drosophila</i> RHEB is a direct target of Tsc2 GTPase-activating protein (GAP) activity both in vivo and in vitro. Point mutations in the <i>Drosophila</i> RHEB gene inhibits cell growth while overexpression promotes cell growth. RHEB functions downstream of Tsc1 and Tsc2 in the mTOR signaling pathway.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

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
Pathway	Insulin signaling pathway; mTOR signaling pathway; Signaling by Insulin receptor
Function	GTP binding; GTPase activity; nucleotide binding

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on 1xtq.



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