

Recombinant Human RHEB, T7 -tagged

Cat. No. RHEB-31325TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature human RHEB protein , fused to T7 tag at N terminus; 197 amino acids, 21.7 kDa.
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	T7
Tissue specificity	Ubiquitous. Highest levels observed in skeletal and cardiac muscle.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Sequences of amino acids	MASMTGGQQM GRGSASMPQS KSRKIALGY RSVGKSSLTI QFVEGQFVDS YDPTIENTFT KLITVNGQEY HLQLVDTAGQ DEYSIFPQTY SIDINGYILV YSVTSIKSFE VIKVIHGKLL DMVGKVQIPI MLVGNKKDLH MERVISYEEG KALAESWNAA FLESSAKENQ TAVDVFRRII LEAEKMDGAA SQGKSSC
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;
Function	GTP binding; GTPase activity; metal ion binding; nucleotide binding;

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