

Ras Homolog Enriched in Brain Recombinant Protein | RHEB recombinant protein

Recombinant Human Ras Homolog Enriched in Brain

CATALOG # AAA38425	HOST E Coli
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PRODUCT SYNONYMS

Ras Homolog Enriched in Brain; Recombinant Human Ras Homolog Enriched in Brain; RHEB Human; Ras Homolog Enriched in Brain Human Recombinant; RHEB2; GTP-binding protein Rheb; MGC111559; Ras homolog enriched in brain; RHEB; RHEB recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The RHEB protein solution (1mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol. Sterile Filtered colorless solution.
Sequence	MASMTGG QQMGRGSAS< /u>MPQSKSR KIAILGYRSV GKSSLTIQFV EGQFVDSYDP TIENTFTKLI TVNGQEYHLQ LVDTAGQDEY SIFPQTYSID INGYILVYSV TSIKSFEVIK VIHGKLLDMV GKVQIPIMLV GNKKDLHMER VISYEEGKAL AESWNAAFLE SSAKENQTAV DVFRRIILEA EKMDGAASQG KSSC
Sequence Length	184

ADDITIONAL INFORMATION

Related Product Information for RHEB recombinant protein	Description: RHEB Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 197 amino acids (1-181 amino acids) and having a molecular mass of 21.7 kDa. The RHEB is fused to T7-tag at N-terminus (16 a.a.) and is purified by standard chromatography techniques. Introduction: RHEB is part of the Ras & GTPase superfamily that was originally identified as an immediate-early gene in brain but is also widely expressed in other tissues. RHEB encodes a lipid-anchored, cell membrane protein with five repeats of the RAS-related GTP-binding region. RHEB is necessary in regulation of growth and cell cycle progression due to its role in the insulin/TOR/S6K signaling pathway. RHEB 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. RHEB induces oncogenic transformation. RHEB overexpression accelerates lymphomagenesis and is associated with prostate cancer. RHEB can cytopathologically distinguish between fibroadenoma from malignant breast carcinomas which is considered as a secondary tool. RHEB has a central role in the regulation of the Ras/B-Raf/C-Raf/MEK signaling network.
Product Categories/Family for RHEB recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	5032041
NCBI GeneID	6009
NCBI Accession #	NP_005605.1
NCBI GenBank Nucleotide #	NM_005614.3
UniProt Accession #	Q15382; Q53Y56; Q99444; B3KWN6; D3DX13
Molecular Weight	20,497 Da

NCBI Official Full Name	GTP-binding protein Rheb
NCBI Official Synonym Full Names	Ras homolog enriched in brain
NCBI Official Symbol	RHEB
NCBI Official Synonym Symbols	RHEB2
NCBI Protein Information	GTP-binding protein Rheb; Ras homolog enriched in brain 2
UniProt Protein Name	GTP-binding protein Rheb
UniProt Gene Name	RHEB
UniProt Synonym Gene Names	RHEB2
UniProt Entry Name	RHEB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rheb-recombinant-protein-e-coli/38425>