Ras Homolog Enriched in Brain (RHEB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Ras homolog enriched in brain (RHEB), Polyclonal Antibody
Full Product Name	Rabbit anti-human Ras homolog enriched in brain polyclonal Antibody
Product Gene Name	anti-RHEB antibody
Product Synonym Names	Ras homolog enriched in brain; RHEB; MGC111559; RHEB2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen Affinity Purified
Molecular Weight	20,497 Da
OMIM	601293
Immunogen	Human RHEB
Storage Buffer	PBS with 0.1% Sodium Azide, 50% Glycerol, pH 7.3. -20 degree C, Avoid freeze / thaw cycles.
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-6341 / sc-6342 / sc-33205
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RHEB antibody	ELISA (EIA), Western Blot (WB)
Related Product Information for anti-RHEB antibody	MBS719293 is an antibody targeting RHEB. Also known as Rabbit anti-human Ras homolog enriched in brain polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-RHEB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RHEB. It may not necessarily be applicable to this product.

NCBI GI #	42490908
NCBI GeneID	6009
NCBI Accession #	AAH66307.1
UniProt Secondary Accession #	Q53Y56; Q99444; B3KWN6; D3DX13
UniProt Related Accession #	Q15382
NCBI Official Full Name	Ras homolog enriched in brain
NCBI Official Synonym Full Names	Ras homolog enriched in brain
NCBI Official Symbol	RHEB
NCBI Official Synonym Symbols	RHEB2

UniProt Protein Name	GTP-binding protein Rheb
UniProt Synonym Protein Names	Ras homolog enriched in brain
Protein Family	GTP-binding protein
UniProt Gene Name	RHEB
UniProt Synonym Gene Names	RHEB2
UniProt Entry Name	RHEB_HUMAN
NCBI Protein Information	GTP-binding protein Rheb; Ras homolog enriched in brain 2
NCBI Summary for RHEB	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. [provided by RefSeq, Jul 2008]
UniProt Comments for RHEB	RHEB: Stimulates the phosphorylation of S6K1 and EIF4EBP1 through activation of mTORC1 signaling. Activates the protein kinase activity of mTORC1. Has low intrinsic GTPase activity. Binds to mTORC1 in a guanyl nucleotide-independent manner. Interacts directly with MTOR, MLST8 and RPTOR. Interacts with TSC2. Ubiquitous. Highest levels observed in skeletal and cardiac muscle. Alternates between an inactive form bound to GDP and an active form bound to GTP. Inactivated by TSC1-TSC2 via the GTPase activating protein (GAP) domain of TSC2. Belongs to the small GTPase superfamily. Rheb family. Protein type: G protein; G protein, monomeric; G protein, monomeric, Rheb Chromosomal Location of Human Ortholog: 7q36 Cellular Component: Golgi membrane; spliceosome; endoplasmic reticulum membrane; membrane; cell soma; dendrite; plasma membrane; cytosol Molecular Function: GTPase activity; protein binding; GDP binding; GTP binding; metal ion binding; protein kinase binding Biological Process: metabolic process; small GTPase mediated signal transduction; insulin receptor signaling pathway; cell cycle arrest; signal transduction; positive regulation of TOR signaling pathway
Research Articles on RHEB	**1.** In vitro data indicated that miR-155 suppressed the macrophage-mediated bacterial phagocytosis and intracellular killing of Pseudomonas aeruginosa by targeting Rheb (Ras homolog enriched in brain).
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