10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

RHEB Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP6378c

Specification

RHEB Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q15382

RHEB Antibody (Center) Blocking Peptide - Additional Information

Gene ID 6009

Other Names
GTP-binding protein Rheb, Ras homolog enriched in brain, RHEB, RHEB2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6378c was selected from the Center region of human RHEB. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RHEB Antibody (Center) Blocking Peptide - Protein Information

Name RHEB

Synonyms RHEB2

RHEB Antibody (Center) Blocking Peptide - Background

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. This protein is vital 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 Antibody (Center) Blocking Peptide - References

Sun,Y., Proc. Natl. Acad. Sci. U.S.A. 105 (24), 8286-8291 (2008)Bai,X., Science 318 (5852), 977-980 (2007)

Function
Activates the protein kinase activity of mTORC1, and thereby plays a role in the regulation of apoptosis. Stimulates the phosphorylation of S6K1 and EIF4EBP1 through activation of mTORC1 signaling. Has low intrinsic GTPase activity.

Cellular Location
Endomembrane system {ECO:0000269|PubMed:22002721, ECO:0000305}; Lipid-anchor {ECO:0000269|PubMed:22002721, ECO:0000305}; Cytoplasmic side {ECO:0000269|PubMed:15489334, ECO:0000305}. Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, cytosol. Endoplasmic reticulum membrane; Lipid-anchor; Cytoplasmic side

Tissue Location
Ubiquitous. Highest levels observed in skeletal and cardiac muscle.

RHEB Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides