

RHEB Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11767b

Specification

RHEB Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q15382
Other Accession	Q62639 , Q921J2 , Q56JV3 , NP_005605.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	20497
Antigen Region	104-134

RHEB Antibody (C-term) - Additional Information

Gene ID 6009

Other Names

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

Target/Specificity

This RHEB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-134 amino acids from the C-terminal region of human RHEB.

Dilution

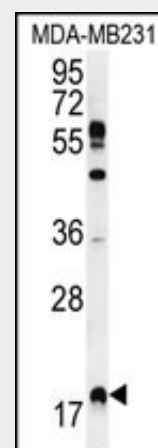
WB~~1:1000
IHC-P~~1:50~100

Format

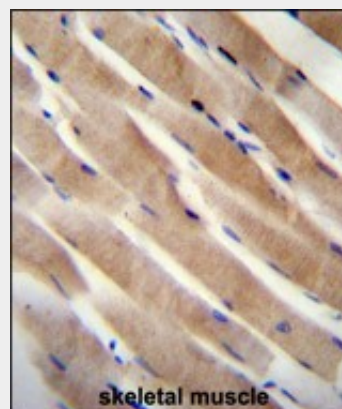
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



RHEB Antibody (C-term) (Cat. #AP11767b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the RHEB antibody detected the RHEB protein (arrow).



RHEB Antibody (C-term) (Cat. #AP11767b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of RHEB Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

RHEB Antibody (C-term) - Background

Precautions

RHEB Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RHEB Antibody (C-term) - Protein Information

Name RHEB

Synonyms RHEB2

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.

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.

RHEB Antibody (C-term) - References

Zheng, H., et al. Cancer Lett. 297(1):117-125(2010)
Kim, H.W., et al. Mol. Cell. Biol. 30(22):5406-5420(2010)
Karassek, S., et al. J. Biol. Chem. 285(44):33979-33991(2010)
Wagner, R.J., et al. Am. J. Physiol., Cell Physiol. 299 (1), C119-C127 (2010) :
Lu, Z.H., et al. Cancer Res. 70(8):3287-3298(2010)

RHEB Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)