

Anti-GTP-binding protein Rheb Rheb Antibody

Catalog Number: A00827-1

About RHEB

Rheb (Ras homolog enriched in brain) is an evolutionarily conserved member of the Ras family of small GTP-binding proteins originally found to be rapidly induced by synaptic activity in the hippocampus following seizure. While it is expressed at relatively high levels in the brain, Rheb is widely expressed in other tissues and may be induced by growth factor stimulation. Similar to other family members, Rheb triggers activation of the Raf-MEK-MAPK pathway. Biochemical and genetic studies demonstrate that Rheb has an important role in regulating the insulin/Target of rapamycin (TOR) signaling pathway. TOR is a serine/threonine protein kinase that acts as a sensor for ATP and amino acids, balancing the availability of nutrients with protein translation and cell growth. A dimeric protein complex termed TSC1/TSC2 indirectly inhibits TOR activity by inhibiting Rheb via the GAP activity of TSC2.

Overview

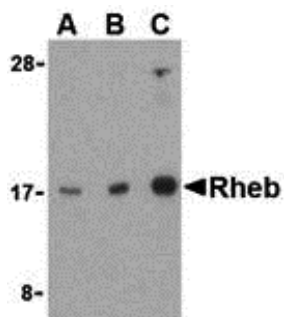
Product Name	Anti-GTP-binding protein Rheb Rheb Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GTP-binding protein Rheb Rheb Antibody (Catalog # A00827-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Rheb Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Rheb antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q15382

Technical Details

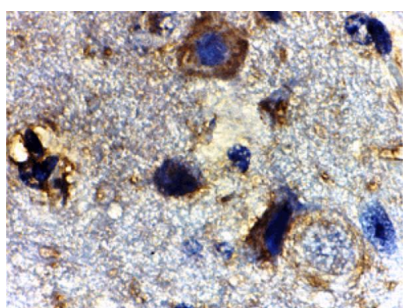
Immunogen	Rheb antibody was raised against a 15 amino acid synthetic peptide from the middle region of human Rheb. The immunogen is located within amino acids 40 - 90 of Rheb.
Predicted Reactive Species	Bovine
Cross Reactivity	Post-translationally modified Rheb is sometimes observed at higher molecular weight.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	Rheb Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Rheb antibody can be used for the detection of Rheb by Western blot at 1 to 4 ug/mL. Antibody can also be used for immunohistochemistry starting at 2 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

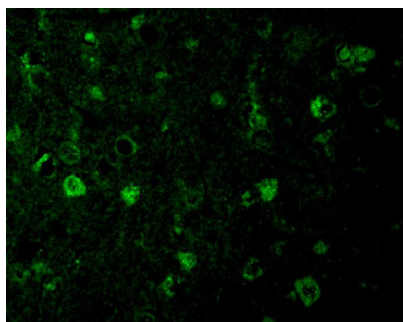
Anti-GTP-binding protein Rheb Rheb Antibody (A00827-1) Images



Western blot analysis of Rheb in mouse brain cell lysate with Rheb antibody at (A) 1



Immunohistochemistry of Rheb in mouse brain tissue with Rheb antibody at 2 ug/mL.



Immunofluorescence of Rheb in Mouse Brain cells with Rheb antibody at 20 ug/mL.

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