Datasheet: AHP973

Description:	RABBIT ANTI RHEB
Specificity:	RHEB
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1ug/ml - 2ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Mouse
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to human Rheb (IN) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.02% Sodium Azide

Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

A 15 amino acid peptide located in the internal region of human Rheb.

External Database Links	**UniProt:** Q15382 Related reagents **Entrez Gene:** 6009 RHEB Related reagents
Synonyms	RHEB2
Specificity	**Rabbit anti Human Rheb antibody** recognizes Ras homologue enriched in brain (Rheb) a ~17 kDa G-protein and evolutionarily conserved Ras family member, widely expressed in tissues other than the brain. Compared with many small GTPases, Rheb is unique since it exists in a highly activated state in mammalian cells. Rheb also plays an important part in regulating the TOR signally pathway. Although Rheb is expressed at relatively high levels in the adult cortex, it can be rapidly induced in brain neurons by synaptic activity. Following a seizure, it is transiently induced in the hippocampus.
Western Blotting	AHP973 detects a band of approximately 17kDa in mouse brain cell lysates.
Further Reading	1. Zhang, Y. *et al.* (2003) Rheb is a direct target of the tuberous sclerosis tumour suppressor proteins. Nat Cell Biol. 5 (6): 578-81. 2. Yamagata, K. *et al.* (1994) rheb, a growth factor- and synaptic activity-regulated gene, encodes a novel Ras-related protein. J Biol Chem. 269 (23): 16333-9.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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