

Datasheet for ABIN500597
anti-RHEB antibody (Center)

2 Images

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Overview

Quantity:	0.1 mg
Target:	RHEB
Binding Specificity:	Center
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RHEB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Rheb antibody was raised against a 15 amino acid peptide from the middle region of human Rheb.
Isotype:	IgG
Specificity:	This antibody detects Rheb at center.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	RHEB
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Target Details

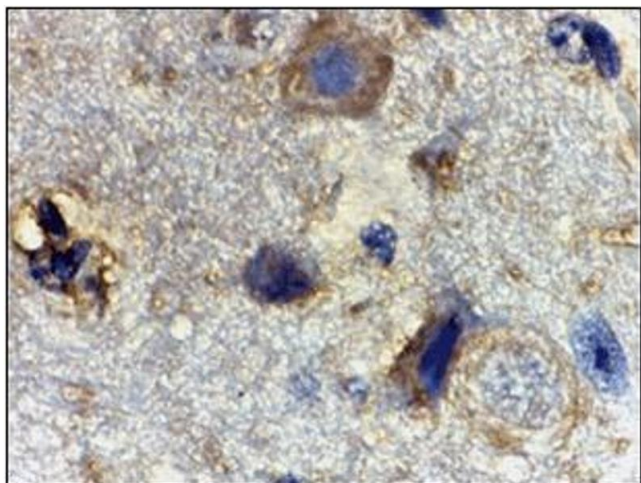
Alternative Name:	RHEB (RHEB Products)
Background:	<p>Rheb (Ras homolog enriched in brain) is an evolutionarily conserved member of the Ras family of small GTP-binding proteins originally found to be rapidly induced by synaptic activity in the hippocampus following seizure (1). While it is expressed 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 (2). Biochemical and genetic studies demonstrate that Rheb has an important role in regulating the insulin/Target of rapamycin (TOR) signaling pathway (3-5). 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 (3). Synonyms: GTP-binding protein Rheb, RHEB2, Ras homolog enriched in brain</p>
Gene ID:	6009
UniProt:	Q15382
Pathways:	RTK Signaling

Application Details

Application Notes:	<p>ELISA. Western blot: 1 µg/mL. Immunohistochemistry on paraffin sections</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Restrictions:	For Research Use only

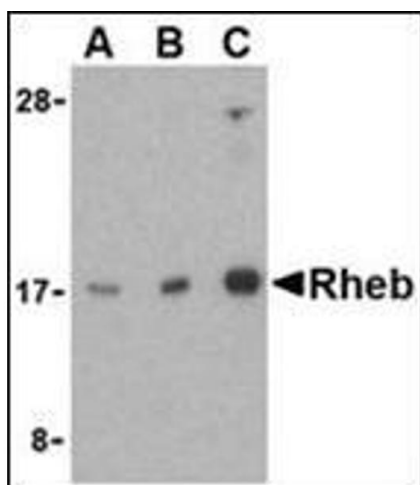
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of Rheb in mouse brain tissue with this product at 2 µg/ml.



Western Blotting

Image 2. Western blot analysis of Rheb in mouse brain cell lysate with this product at (A) 1, (B) 2, and (C) 4 µg/ml.