

Product datasheet for **TA326964**

RHEB Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB: 1:500-1:2000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human RHEB
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Ras homolog enriched in brain
Database Link:	NP_005605 Entrez Gene 19744 Mouse Entrez Gene 6009 Human Q15382



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Background:

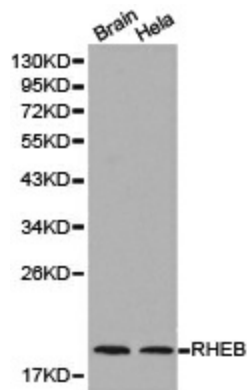
Rheb (Ras Homolog Enriched in Brain) is an evolutionarily conserved member of the Ras family of small GTP-binding proteins originally found to be rapidly induced by synaptic activity in the hippocampus following seizure. While it is expressed at relatively high levels in the brain, Rheb is widely expressed in other tissues and may be induced by growth factor stimulation. Like 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/TOR signaling pathway. The mammalian target of rapamycin, mTOR, is a serine/threonine protein kinase that acts as a sensor for ATP and amino acids, balancing the availability of nutrients with translation and cell growth. The tuberin/hamartin (TSC2/TSC1) complex inhibits mTOR activity indirectly by inhibiting Rheb via tuberins GAP activity.

Synonyms:

RHEB2

Protein Pathways:

Insulin signaling pathway, mTOR signaling pathway

Product images:

Western blot analysis of brain cell and HeLa cell lysate using RHEB antibody.