

Product datasheet for TA306217

Hamartin (TSC1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Reactivity: WB: 2 - 4 ug/mL Human, Mouse

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Rabbit TSC1 (CT) polyclonal antibody was raised against a 15 amino acid peptide from the

carboxy terminus of human TSC1.

Formulation: PBS containing 0.02% sodium azide.

Concentration: 1ug/ul

Purification: Affinity chromatography purified via peptide column

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: tuberous sclerosis 1

Database Link: AAC51674

Entrez Gene 7248 Human

Q92574



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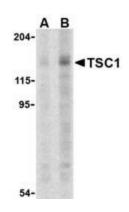
Background:

Tuberous sclerosis complex (TSC) is an autosomal dominant tumor syndrome caused by mutations in either of the TSC1 or TSC2 tumor suppressor genes. The products of these genes form a protein complex that indirectly decreases the signaling of the mammalian Target of Rapamycin (TOR), an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors (reviewed in 1,2). TOR activity is stimulated by Rheb, a member of the Ras superfamily of G-proteins, when the GTP/GDP ratio bound to Rheb is high (3). Immunoprecipitated TSC1/TSC2 has been shown to stimulate Rheb GTPase activity in vitro (4), suggesting that the TSC1/TSC2 decreases the ability of Rheb to stimulate TOR activity. This is supported by experiments showing overexpression of TSC1 and TSC2 results in a significant decrease in the GTP/GDP ratio bound to Rheb and the inhibition of cell growth (4,5). A shorter 40 kDa isoform of TSC1 has been shown to exist but its function is unknown.

Synonyms:

LAM; TSC

Product images:



Western blot analysis of TSC1 in C2C12 cell lysate with TSC1 antibody at (A) 2 and (B) 4 ug.