

TSC1

Reactivity:Human Mouse

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:1000

Calculated MW:130kDa

Observed MW:Refer to Figures

Immunogen:

A synthetic peptide of human TSC1

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

KIAA0243; LAM; MGC86987; TSC

Catalog #:A0721

Antibody Type:

Monoclonal Antibody

Species:Mouse

Gene ID:7248

Isotype:IgG

Swiss Prot:Q92574

Purity:Affinity purification

For research use only.

Background:

TSC1, also named as KIAA0243 and TSC, is implicated as a tumor suppressor. It is involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. In complex with TSC2, TSC1 inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. It seems not to be required for TSC2 GAP activity towards RHEB. It is involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. Defects in TSC1 are the cause of tuberous sclerosis complex (TSC). Defects in TSC1 may be a cause of focal cortical dysplasia of Taylor balloon cell type (FCDBC). The antibody is specific to TSC1.

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