

TSC2

Reactivity: Human

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:1000 IHC 1:50 - 1:100 IF 1:50 - 1:100

Calculated MW: 201kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human TSC2

Storage Buffer:

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

Synonym:

LAM; TSC4;

Catalog #: A0491

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 7249

Isotype: IgG

Swiss Prot: P49815

Purity: Affinity purification

For research use only.

Background:

TSC2, also named as TSC4, FLJ43106 and LAM, acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1. In complex with TSC1, TSC2 inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. TSC2 implicated as a tumor suppressor. It is involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. TSC2 stimulates weakly the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 in vitro. Mutations in TSC2 lead to constitutive activation of RAP1A in tumors. Mutations in either TSC2 or the related TSC1 (hamartin) gene cause tuberous sclerosis complex (TSC), an autosomal dominant disorder characterized by development of multiple, widespread non-malignant tumors. The antibody is specific to TSC2.

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