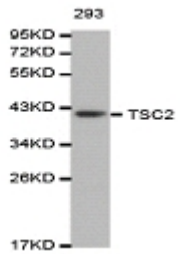
E90491

TSC2Polyclonal Antibody

Catalog Number: E90491
Amount: 100ul
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.
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: LAM; TSC4;
Immunogen: A synthetic peptide of human TSC2
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC IF
Molecular Weight: 201kDa
Swiss-Prot No. : P49815
Gene ID: 7249

WB 1:500-1:2000
IHC 1:50-1:200
IF 1:20-1:50



Western blot analysis of extracts of 293 cell line, using TSC2 antibody.

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