

TSC1 Rabbit mAb

Catalog No.: A5121 **Recombinant**

Basic Information

Observed MW

150kDa

Calculated MW

130kDa

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Human

CloneNo number

ARC1236

Background

This gene is a tumor suppressor gene that encodes the growth inhibitory protein hamartin. The encoded protein interacts with and stabilizes the GTPase activating protein tuberin. This hamartin-tuberin complex negatively regulates mammalian target of rapamycin complex 1 (mTORC1) signaling which is a major regulator of anabolic cell growth. This protein also functions as a co-chaperone for Hsp90 that inhibits its ATPase activity. This protein functions as a facilitator of Hsp90-mediated folding of kinase and non-kinase clients, including TSC2 and thereby preventing their ubiquitination and proteasomal degradation. Mutations in this gene have been associated with tuberous sclerosis and lymphangioleiomyomatosis.

Recommended Dilutions

WB 1:500 - 1:1000

Immunogen Information

Gene ID

7248

Swiss Prot

Q92574

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1065-1164 of human Hamartin (Q92574).

Synonyms

LAM; TSC; TSC1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

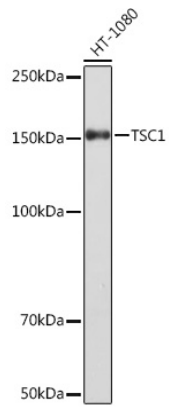
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of HT-1080 cells, using TSC1 Rabbit mAb (A5121) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 3min.