

# TSC1 Mouse mAb

Catalog No.: A0721 **2 Publications**

## Basic Information

**Observed MW**

140kDa

**Calculated MW**

130kDa

**Category**

Primary antibody

**Applications**

ELISA, WB

**Cross-Reactivity**

Human, Mouse

## 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 of human TSC1

**Synonyms**

LAM; TSC; TSC1

## Contact

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## Product Information

**Source**

Mouse

**Isotype**

IgG

**Purification**

Affinity purification

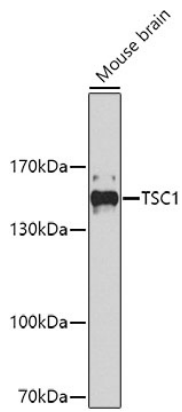
**Storage**

Store at 4°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, pH7.3.

## Validation Data

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Western blot analysis of lysates from mouse brain, using TSC1 Mouse mAb (A0721).  
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.