

For Research Use Only

# Hamartin/TSC1 Polyclonal antibody



Catalog Number: 20988-1-AP

Featured Product

10 Publications

## Basic Information

**Catalog Number:**

20988-1-AP

**Size:**

550 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_000368

**GeneID (NCBI):**

7248

**UNIPROT ID:**

Q92574

**Full Name:**

tuberous sclerosis 1

**Calculated MW:**

130 kDa

**Observed MW:**

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

## Applications

**Tested Applications:**

IF, WB, ELISA

**Cited Applications:**

IHC, IP, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB: HeLa cells,

## Background Information

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. This antibody can recognize two isoforms: 70 kDa (667aa) and 130 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hao Tang	34520980	Biochem Biophys Res Commun	WB, IHC, IP
Jiexuan Wang	32585629	Mol Ther Nucleic Acids	WB
Jiqian Zhang	32308756	Theranostics	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

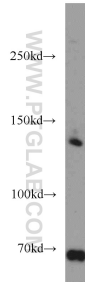
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

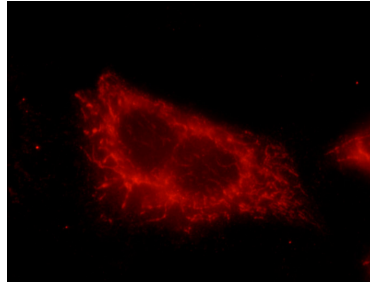
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 20988-1-AP (hamartin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells using 20988-1-AP (hamartin antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.