

For Research Use Only

Hamartin/TSC1 Polyclonal antibody

Catalog Number: 20988-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

20988-1-AP

Size:

150ul, Concentration: 550 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;

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:

WB, ELISA

Cited Applications:

WB, IHC, IP

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

*** 20ul sizes contain 0.1% BSA

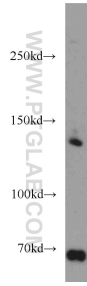
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
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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.