

For Research Use Only

# Tuberin-Specific Polyclonal antibody



Catalog Number: 20004-1-AP

3 Publications

## Basic Information

Catalog Number:

20004-1-AP

Size:

313 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_000548

GeneID (NCBI):

7249

UNIPROT ID:

P49815

Full Name:

tuberous sclerosis 2

Calculated MW:

201 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

## Background Information

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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Luyao Zhang	32641353	Diabetes	WB
Wenjun Wang	33473107	Nat Commun	WB
John J Bissler	30675765	Physiol Rep	WB,IF

## 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

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## Selected Validation Data