

For Research Use Only

# Phospho-TSC2 (Ser1387) Recombinant antibody

Catalog Number: 80553-2-RR



## Basic Information

Catalog Number:

80553-2-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC150300

GeneID (NCBI):

7249

UNIPROT ID:

P49815

Full Name:

tuberous sclerosis 2

Calculated MW:

1807 aa, 201 kDa

Observed MW:

200 kDa

Purification Method:

Protein A purification

CloneNo.:

242665D1

Recommended Dilutions:

WB: 1:1000-1:4000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : Calyculin A treated NIH/3T3 cells, NIH/3T3 cells

## Background Information

TSC2, also named as Tuberin, plays an essential role in the cellular energy response pathway. TSC2 forms a physical and functional complex with TSC1 that can inhibit the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. AMPK can phosphorylate and activate the Ser1387 site of TSC2. (PMID: 14651849, 12172553, PMID: 23244622)

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

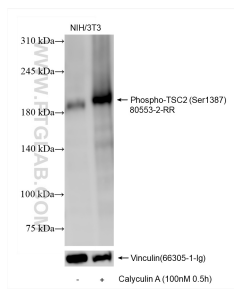
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## Selected Validation Data



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80553-2-RR (Phospho-TSC2 (Ser1387) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin antibody (66305-1-Ig) as the loading control.