

For Research Use Only

# Phospho-TSC2 (Ser1387) Recombinant antibody

Catalog Number: 80553-2-RR



## Basic Information

<b>Catalog Number:</b> 80553-2-RR	<b>GenBank Accession Number:</b> BC150300	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7249	<b>CloneNo.:</b> 242665D1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P49815	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> tuberous sclerosis 2	
	<b>Calculated MW:</b> 1807 aa, 201 kDa	
	<b>Observed MW:</b> 200 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Calyculin A treated NIH/3T3 cells, NIH/3T3 cells
<b>Species Specificity:</b> human, mouse	

## 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

\*\*\* 20ul sizes contain 0.1% BSA

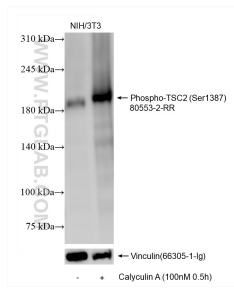
For technical support and original validation data for this product please contact:

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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.