For Research Use Only

Phospho-TSC2 (Ser939) Recombinant antibody

Catalog Number:81654-1-RR

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Basic Information

Catalog Number:
81654-1-RR

Concentration:
500 ug/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.:
2B18

Recommended Dilutions:
WB 1:1000-1:5000

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human

Positive Controls:

WB : Calyculin A treated HEK-293 cells,

Background Information

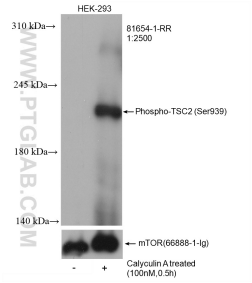
TSC2, also named Tuberin, plays an essential role in the cellular energy response pathway. TSC2 forms a physical and functional complex with TSC1 that can inhibit the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Tuberin is phosphorylated on Ser939 and Thr1462 in response to PI3K activation and the human TSC complex is a direct biochemical target of the PI3K/Akt pathway (PMID: 12150915).

Storage

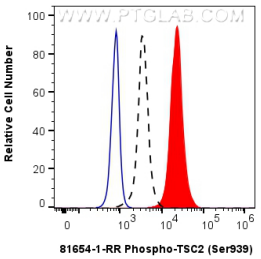
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 81654-1-RR (Phospho-TSC2 (Ser939) antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with mTOR antibody (66888-1-Ig) as the loading control.



1X10^6 HEK-293 cells untreated (dashed lines) or treated with Calyculin A were intracellularly stained with 0.06 ug Phospho-TSC2 (Ser939) Recombinant antibody (81654-1-RR, Clone:2B18) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.