

For Research Use Only

# Phospho-TSC2 (Ser939) Recombinant antibody, PBS Only



Catalog Number: 81654-1-PBS

## Basic Information

<b>Catalog Number:</b> 81654-1-PBS	<b>GenBank Accession Number:</b> BC150300	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 7249	<b>CloneNo.:</b> 2B18
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P49815	
<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

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human

## 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 -80°C.

**Storage Buffer:**  
PBS Only

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

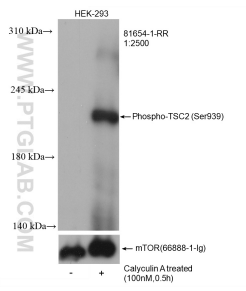
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## Selected Validation Data



Non-treated and Calyculin A treated 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. This data was developed using the same antibody clone with 81654-1-PBS in a different storage buffer formulation.