

For Research Use Only



Phospho-TSC2 (Thr1462)

Recombinant antibody, PBS Only

Catalog Number: 80698-1-PBS

Basic Information

Catalog Number: 80698-1-PBS	GenBank Accession Number: BC150300	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7249	CloneNo.: 1L20
Source: Rabbit	UNIPROT ID: P49815	
Isotype: IgG	Full Name: tuberous sclerosis 2	
	Calculated MW: 1807 aa, 201 kDa	
	Observed MW: 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. It has been reported that TSC2 can be phosphorylated at Thr1462 by Akt/PKB involved in stimulating cell growth and is activated by insulin. (PMID: 14651849, 12172553)

Storage

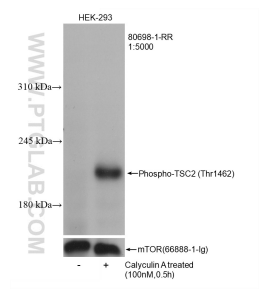
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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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 80698-1-RR (Phospho-TSC2 (Thr1462) antibody) at dilution of 1:5000 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 80698-1-PBS in a different storage buffer formulation.