

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:	1 mg/ml	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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

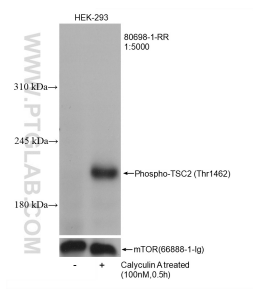
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.