

For Research Use Only

Phospho-Hamartin/TSC1 (Ser511) Recombinant antibody



Catalog Number: 80340-1-RR

Basic Information

Catalog Number: 80340-1-RR	GenBank Accession Number: NM_000368	Purification Method: Protein A purification
Size: 100ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 7248	CloneNo.: 3N6
Source: Rabbit	Full Name: tuberous sclerosis 1	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Calculated MW: 130 kDa	
	Observed MW: 150 kDa	

Applications

Tested Applications:
FC, WB, ELISA

Species Specificity:
Human, mouse

Positive Controls:
WB : NIH/3T3 cells, HeLa cells, Calyculin A treated
HeLa cells, Calyculin A treated HEK-293 cells,
Calyculin A treated NIH/3T3 cells

Background Information

TSC1, also named as Hamartin, is a tumor suppressor gene syndrome whose manifestations can include seizures, mental retardation, autism, and tumors in the brain, retina, kidney, heart, and skin. The tuberous sclerosis 1 (TSC1)/TSC2 tumor suppressor complex serves as a repressor of the mTOR pathway, and disruption of TSC1/TSC2 complex function may contribute to tumorigenesis. TSC1 is phosphorylated by IKKb at Ser487 and Ser511 in vitro and in vivo, and phosphorylation at these sites enhances dissociation of the TSC1/TSC2 complex, which in turn induces mTOR activation. (PMID: 17693255). TSC1 is also threonine-phosphorylated at three sites (Thr417, Ser584, and Thr1047) in a reaction catalyzed by cyclin-dependent kinase 1 (CDK1) (PMID: 14551205).

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.

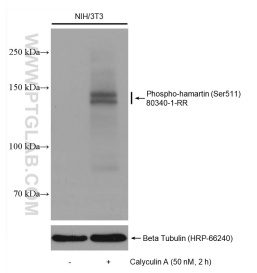
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

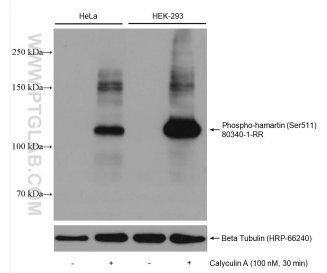
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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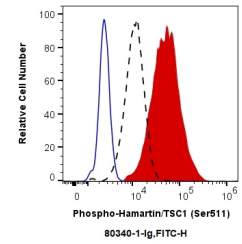
Selected Validation Data



Non-treated and Calyculin A treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80340-1-RR (Phospho-Hamartin/TSC1 (Ser511) Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Non-treated and Calyculin A treated HeLa and HEK-293 cells were subjected to SDS PAGE followed by western blot with 80340-1-RR (Phospho-Hamartin/TSC1 (Ser511) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1X10⁶ HeLa cells untreated (dashed lines) and Calyculin A treated (red) were intracellularly stained with 0.5 ug Anti-Human Phospho-Hamartin/TSC1 (Ser511) (80340-1-RR, Clone:3N6) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000, or 0.5 ug Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 50% MeOH.