

For Research Use Only

Phospho-Hamartin/TSC1 (Ser511) Recombinant antibody, PBS Only



Catalog Number: 80340-1-PBS

Basic Information

Catalog Number:

80340-1-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_000368

GeneID (NCBI):

7248

UNIPROT ID:

Q92574

Full Name:

tuberous sclerosis 1

Calculated MW:

130 kDa

Observed MW:

150 kDa

Purification Method:

Protein A purification

CloneNo.:

3N6

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

Human, mouse

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 IKK β 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 -80°C.

Storage Buffer:

PBS Only

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

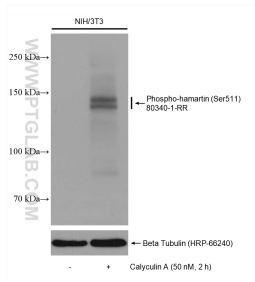
T: 4006900926

E: Proteintech-CN@ptglab.com

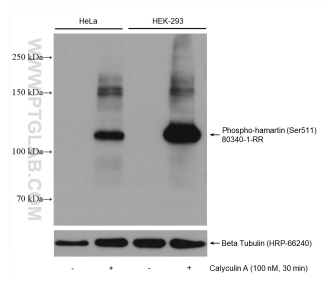
W: ptgcn.com

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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. This data was developed using the same antibody clone with 80340-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 80340-1-PBS in a different storage buffer formulation.