

Phospho-rat TSC2(T1373) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3833a

Specification

Phospho-rat TSC2(T1373) Antibody - Product Information

Application	DB,E
Primary Accession	P49816
Other Accession	NP_036812.2
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	201278

Phospho-rat TSC2(T1373) Antibody - Additional Information

Gene ID 24855

Other Names

Tuberin, Tuberous sclerosis 2 protein homolog, Tsc2

Target/Specificity

This rat TSC2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T1373 of rat TSC2.

Dilution

DB~~1:500

Format

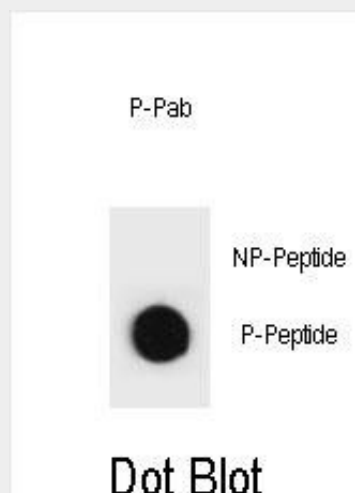
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-rat TSC2(T1373) Antibody is for research use only and not for use in



Dot blot analysis of rat TSC2 Antibody (Phospho T1373) Phospho-specific Pab (Cat. #AP3833a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-rat TSC2(T1373) Antibody - Background

acts as a tumor suppressor; may play a role in cell cycle regulation; acute phase response, and negative regulation of cell proliferation [RGD].

Phospho-rat TSC2(T1373) Antibody - References

Larson, Y., et al. J. Biol. Chem. 285(32):24987-24998(2010)
Sajankila, S.P., et al. Mol. Cell. Biochem. 338 (1-2), 233-239 (2010) :
Inoue, H., et al. Biosci. Biotechnol. Biochem. 73(11):2488-2493(2009)
Di Nardo, A., et al. J. Neurosci. 29(18):5926-5937(2009)
Shiono, M., et al. Oncogene

diagnostic or therapeutic procedures.

27(52):6690-6697(2008)

Phospho-rat TSC2(T1373) Antibody - Protein Information

Name Tsc2

Function

In complex with TSC1, this tumor suppressor inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (By similarity). Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1 (By similarity). May also play a role in microtubule-mediated protein transport (PubMed:16707451). Also stimulates the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 (PubMed:9045618).

Tissue Location

CNS, uterus, heart, skeletal muscle, kidney and spleen

Phospho-rat TSC2(T1373) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)