

**Phospho-mouse TSC2(S1419) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3827a**

**Specification**

**Phospho-mouse TSC2(S1419) Antibody - Product Information**

Application	<b>DB,E</b>
Primary Accession	<a href="#">O61037</a>
Other Accession	<a href="#">P49816</a>
Reactivity	<b>Mouse</b>
Predicted	<b>Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Calculated MW	<b>202071</b>

**Phospho-mouse TSC2(S1419) Antibody - Additional Information**

**Other Names**

Tuberin, Tuberous sclerosis 2 protein homolog, Tsc2

**Target/Specificity**

This mouse TSC2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S1419 of mouse TSC2.

**Dilution**

DB~~1:500

**Format**

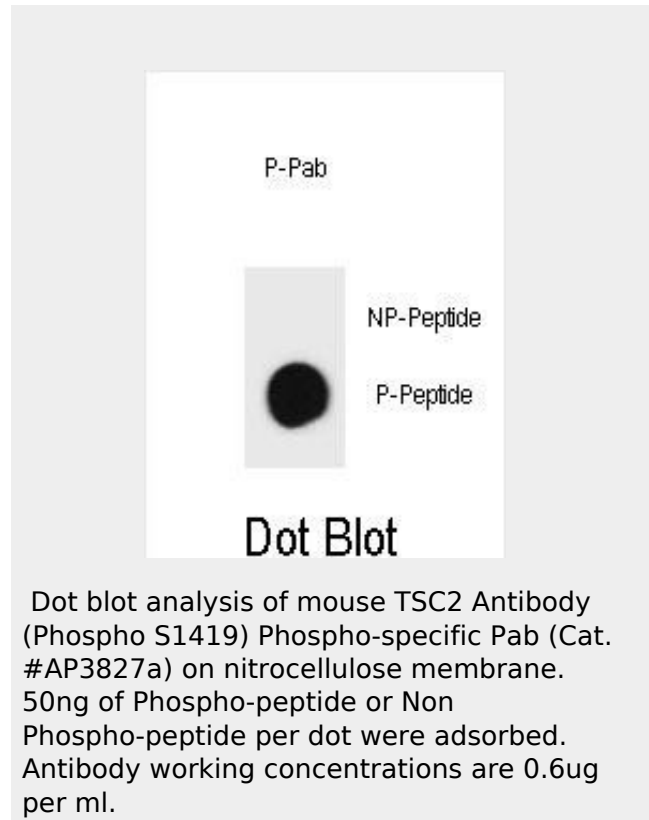
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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-mouse TSC2(S1419) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



**Phospho-mouse TSC2(S1419) Antibody - Background**

In complex with TSC1, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity). Specifically stimulates the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. Suggesting a possible mechanism for its role in regulating cellular growth (By similarity).

**Phospho-mouse TSC2(S1419) 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:<a href="http://www.uniprot.org/citations/16707451" target="\_blank">16707451</a>). Also stimulates the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 (By similarity).

**Cellular Location**

Cytoplasm. Membrane; Peripheral membrane protein. Note=At steady state found in association with membranes.

**Tissue Location**

Widely expressed.

**Phospho-mouse TSC2(S1419) 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](#)