

Phospho-mouse TSC1(T310) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3819a

Specification

Phospho-mouse TSC1(T310) Antibody - Product Information

Application	DB,E
Primary Accession	Q9EP53
Other Accession	NP_075025.2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	128746

Phospho-mouse TSC1(T310) Antibody - Additional Information

Gene ID 64930

Other Names

Hamartin, Tuberous sclerosis 1 protein homolog, Tsc1, Kiaa0243

Target/Specificity

This mouse TSC1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T310 of mouse TSC1.

Dilution

DB~~1:500

Format

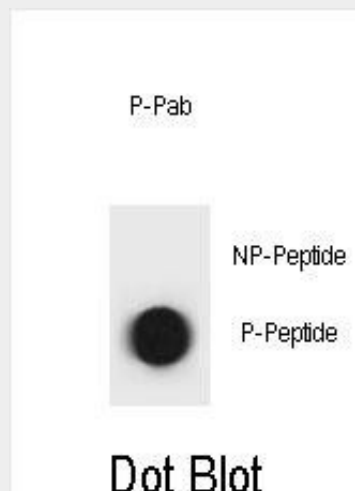
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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 TSC1(T310) Antibody is for research use only and not for use in



Dot blot analysis of mouse TSC1 Antibody (Phospho T310) Phospho-specific Pab (Cat. #AP3819a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-mouse TSC1(T310) Antibody - Background

In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (By similarity). Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity).

Phospho-mouse TSC1(T310) Antibody - References

Kladney, R.D., et al. Cancer Res. 70(21):8937-8947(2010)
Sathaliyawala, T., et al. Immunity 33(4):597-606(2010)
Scott, C.L., et al. Am. J. Physiol. Lung Cell Mol. Physiol. 299 (4), L455-L471 (2010) :

diagnostic or therapeutic procedures.

Phospho-mouse TSC1(T310) Antibody - Protein Information

Name Tsc1

Synonyms Kiaa0243

Function

In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (By similarity). Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (PubMed:16707451). Acts as a co-chaperone for HSP90AA1 facilitating HSP90AA1 chaperoning of protein clients such as kinases, TSC2 and glucocorticoid receptor NR3C1 (PubMed:29127155). Increases ATP binding to HSP90AA1 and inhibits HSP90AA1 ATPase activity (PubMed:29127155). Competes with the activating co-chaperone AHSA1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins (By similarity). Recruits TSC2 to HSP90AA1 and stabilizes TSC2 by preventing the interaction between TSC2 and ubiquitin ligase HERC1 (By similarity).

Cellular Location

Cytoplasm
{ECO:0000250|UniProtKB:Q92574}.
Membrane
{ECO:0000250|UniProtKB:Q92574};
Peripheral membrane protein
{ECO:0000250|UniProtKB:Q92574}.
Note=At steady state found in association with membranes.
{ECO:0000250|UniProtKB:Q92574}

Bartolome, A., et al. Endocrinology
151(7):3084-3094(2010)
Squarize, C.H., et al. PLoS ONE 5 (5), E10643
(2010) :

Phospho-mouse TSC1(T310) 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](#)