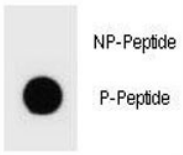
Phospho-TSC2 Antibody (pS1096) (F48775)

Catalog No.	Formulation	Size
F48775-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48775-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q61037
Applications	Dot Blot : 1:500
Limitations	This phospho-TSC2 antibody is available for research use only.



Dot blot analysis of phospho-TSC2 antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

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).

Application Notes

Titration of the phospho-TSC2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-TSC2 antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS1096 of mouse TSC2.

Storage

Aliquot the phospho-TSC2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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