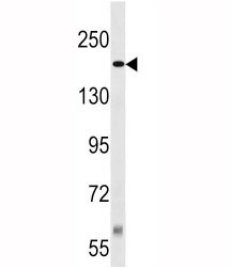
TSC2 Antibody (F52112)

Catalog No.	Formulation	Size
F52112-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52112-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P49815
Applications	Western blot: 1:1000
Limitations	This TSC2 antibody is available for research use only.



TSC2 antibody western blot analysis in Jurkat lysate

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. Stimulates weakly the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 in vitro. Mutations in TSC2 lead to constitutive activation of

RAP1A in tumors.

Application Notes

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

Immunogen

A portion of amino acids 1364-1393 from the human protein was used as the immunogen for this TSC2 antibody.

Storage

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

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