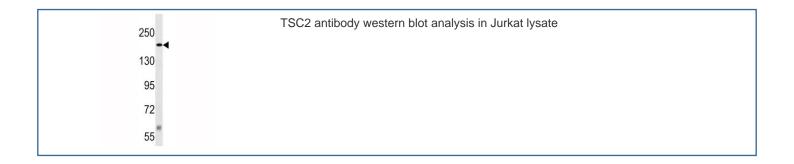


# TSC2 Antibody (F52112)

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
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.



#### **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.