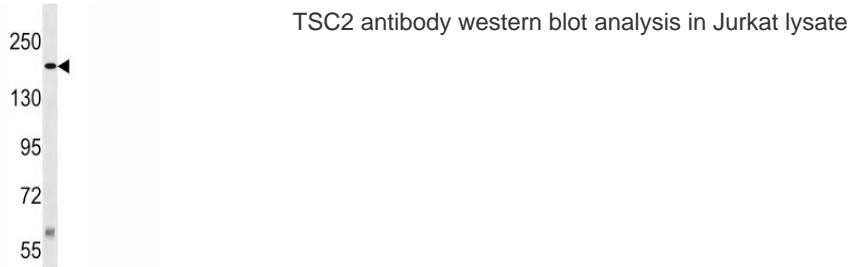


## TSC2 Antibody (F52112)

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**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Predicted Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity
<b>UniProt</b>	P49815
<b>Applications</b>	Western Blot : 1:1000
<b>Limitations</b>	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.