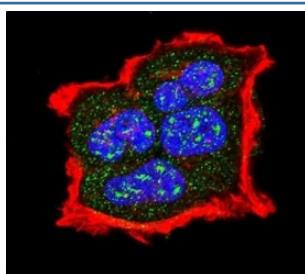


## Phospho-TSC2 Antibody (pS1420) (F48541)

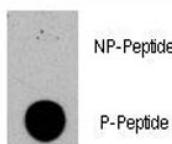
Catalog No.	Formulation	Size
F48541-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48541-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P49815
Applications	Dot Blot : 1:500 Immunofluorescence : 1:10-1:50
Limitations	This phospho-TSC2 antibody is available for research use only.



Confocal immunofluorescent analysis of phospho-TSC2 antibody with MCF-7 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).



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

## Description

Mutations in TSC2 lead to tuberous sclerosis complex. The protein is believed to be a tumor suppressor and is able to specifically stimulate the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. The protein associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. TSC2 may have a function in vesicular transport, but may also play a role in the regulation of cell growth arrest and in the regulation of transcription mediated by steroid receptors. Interaction between TSC1 and TSC2 may facilitate vesicular docking.

## 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 pS1420 of human TSC2.

## Storage

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