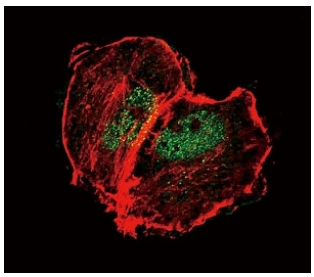
Phospho-TSC2 / Tuberin Antibody (pS664) (F48519)

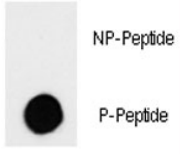
Catalog No.	Formulation	Size
F48519-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48519-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

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	Immunofluorescence: 1:10-1:50 Dot blot: 1:500
Limitations	This phospho-Tuberin antibody is available for research use only.



Confocal immunofluorescent analysis of phospho-Tuberin 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).



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

Description

Mutations in TSC2/Tuberin 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-Tuberin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-Tuberin antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS664 of human TSC2.

Storage

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

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