Datasheet for ABIN3029774

anti-Tuberin antibody (pSer939)

3 Images

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Overview

Quantity:	0.4 mL
Target:	Tuberin (TSC2)
Binding Specificity:	pSer939
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tuberin antibody is un-conjugated
Application:	ELISA, Dot Blot (DB), Immunofluorescence (IF)

Product Details

Immunogen:	This p-Tuberin antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS939 of human TSC2.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse
Purification:	Antigen affinity purified

Target Details

Target:	Tuberin (TSC2)
Alternative Name:	Tuberin (TSC2 Products)

Target Details

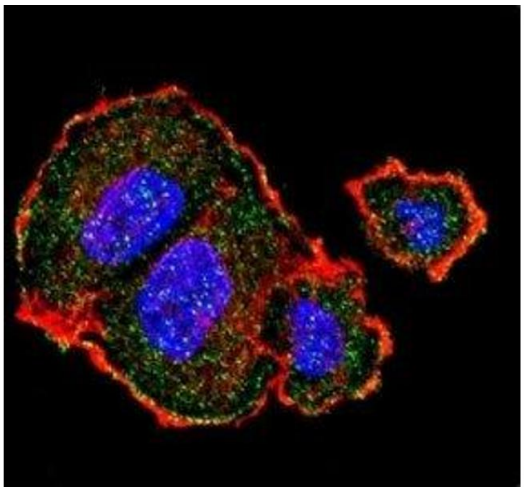
Background:	Mutations in TSC2/Tuberin lead to tuberous sclerosis complex. The protein is believed to be a tumor suppressor and is able to specifically stimulate the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. The protein associates with hamartin in a cytosolic complex, possibly 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.
UniProt:	P49815
Pathways:	RTK Signaling, AMPK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Cell Size, Tube Formation, Protein targeting to Nucleus

Application Details

Application Notes:	Titration of the p-Tuberin antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Dot blot: 1:500,Immunofluorescence: 1:10-1:50
Restrictions:	For Research Use only

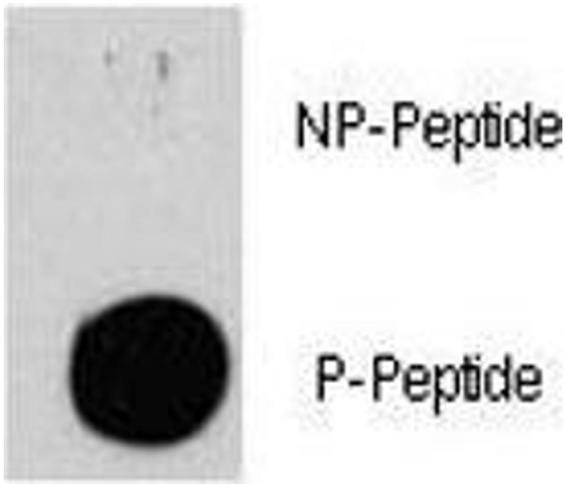
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the p-Tuberin antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



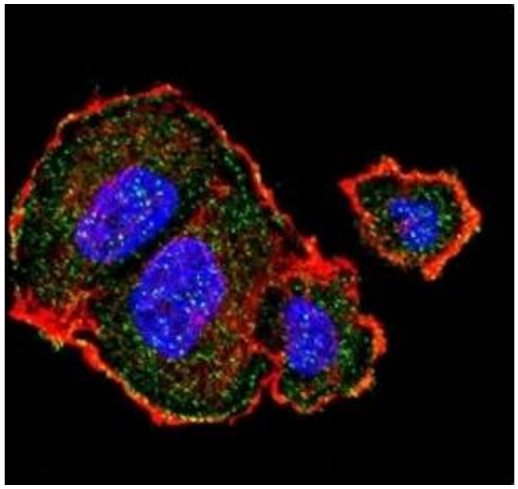
Immunofluorescence

Image 1. Confocal immunofluorescent analysis of p-Tuberin antibody with MCF-7 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filamentshave been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstai



Dot Blot

Image 2. Dot blot analysis of p-Tuberin antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.



Immunofluorescence

Image 3. Confocal immunofluorescent analysis of p-Tuberin antibody with MCF-7 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filamentshave been labeled with Alexa Fluor 555 Phalloidin (red). DAPI was used as a nuclear counterstain (blue).