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## Datasheet for ABIN1881949 anti-Tuberin antibody (pSer1387)

2 Images

6 Publications



#### Overview

Quantity:	400 µL
Target:	Tuberin (TSC2)
Binding Specificity:	pSer1387
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Dot Blot (DB), Immunofluorescence (IF)
Product Details	
Immunogen:	This TSC2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic
	phosphopeptide corresponding to amino acid residues surrounding S1387 of human TSC2.
Clone:	RB11388
lsotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	Tuberin (TSC2)
Alternative Name:	TSC2 (TSC2 Products)
Background:	Mutations in TSC2 lead to tuberous sclerosis complex. The protein is believed to be a tumor

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## Target Details

	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.
Molecular Weight:	200608
NCBI Accession:	NP_000539, NP_001070651, NP_001107854
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:	IF: 1:10~50. DB: 1:500
Restrictions:	For Research Use only

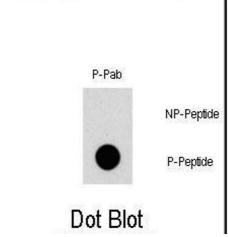
### Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Expiry Date:	6 months
Publications	
Droduct cited in:	Moi Li Chu Viu Lo: "The inhibitory offects of eilver diamine flueride at different concentrations

Product cited in:Mei, Li, Chu, Yiu, Lo: "The inhibitory effects of silver diamine fluoride at different concentrations<br/>on matrix metalloproteinases." in: Dental materials : official publication of the Academy of<br/>Dental Materials, Vol. 28, Issue 8, pp. 903-8, (2012) (PubMed).

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#### Images

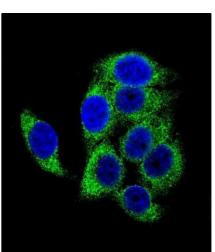


#### **Dot Blot**

**Image 1.** Dot blot analysis of Phospho-TSC2- polyclonal antibody (ABIN1881949 and ABIN2839674) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentration was 0.5 µg per ml. P-Pab: phospho-antibody, P-Peptide: phospho-peptide, NP-Peptide: non-phosphopeptide.

#### Immunofluorescence

**Image 2.** Confocal immunofluorescent analysis of Phospho-TSC2- Antibody (ABIN1881949 and ABIN2839674) with hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DI was used to stain the cell nuclear (blue).



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