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Datasheet for ABIN6255593 anti-Tuberin antibody (pThr1462)

3 Images



Overview

Quantity:	100 µL
Target:	Tuberin (TSC2)
Binding Specificity:	pThr1462
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tuberin antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Tuberin/TSC2 around the phosphorylation site of Thr1462.
lsotype:	lgG
Specificity:	Phospho-Tuberin/TSC2 (Thr1462) Antibody detects endogenous levels of Tuberin/TSC2 only when phosphorylated at Threonine 1462.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

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Target Details	
Target:	Tuberin (TSC2)
Alternative Name:	TSC2 (TSC2 Products)
Background:	Description: In complex with TSC1, this tumor suppressor inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (PubMed:12271141, PubMed:28215400). Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1 (PubMed:15340059). May also play a role in microtubule-mediated protein transport (By similarity). Also stimulates the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 (By similarity). Gene: TSC2
Molecular Weight:	200 kDa
Gene ID:	7249
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:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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-20 °C

Storage:

Handling

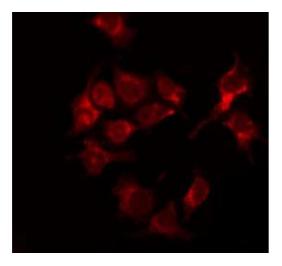
Storage Comment:

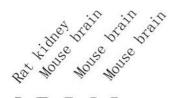
Store at -20 °C. Stable for 12 months from date of receipt.

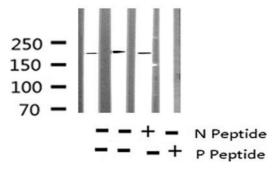
Expiry Date:

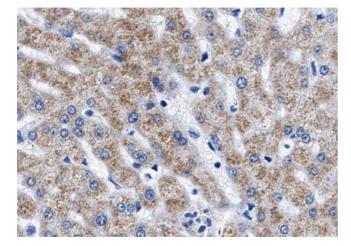
12 months

Images









Immunofluorescence (fixed cells)

Image 1. ABIN6267543 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

Western Blotting

Image 2. Western blot analysis of Phospho-Tuberin/TSC2 (Thr1462) Antibody expression in mouse brain and rat kidney tissues lysates.

Immunohistochemistry

Image 3. ABIN6267543 at 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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