

Datasheet for ABIN1881944

anti-Tuberin antibody (AA 1364-1393)[Go to Product page](#)**1** Image

Overview

Quantity:	400 µL
Target:	Tuberin (TSC2)
Binding Specificity:	AA 1364-1393
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	This TSC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1364-1393 amino acids from the Central region of human TSC2.
Clone:	RB42286
Isotype:	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:	In complex with TSC1, inhibits the nutrient-mediated or growth factor-stimulated

Target Details

phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. Stimulates weakly the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 in vitro. Mutations in TSC2 lead to constitutive activation of RAP1A in tumors.

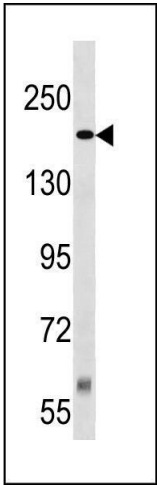
Molecular Weight:	200608
NCBI Accession:	NP_000539 , NP_001070651 , NP_001107854
UniProt:	P49815
Pathways:	RTK Signaling , AMPK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Cell Size , Tube Formation , Protein targeting to Nucleus

Application Details

Application Notes:	WB: 1:1000
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



Western Blotting

Image 1. TSC2 Antibody (Center /) (ABIN1881944 and ABIN2843242) western blot analysis in Jurkat cell line lysates (35 µg/lane). This demonstrates the TSC2 antibody detected the TSC2 protein (arrow).