

Datasheet for ABIN1539797

anti-Tuberin antibody**2** Images[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	Tuberin (TSC2)
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	This TSC2 monoclonal antibody is generated from mouse immunized with TSC2 recombinant protein.
Clone:	249CT19-1-3
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	Tuberin (TSC2)
Alternative Name:	TSC2 (TSC2 Products)
Background:	Mutations in this gene lead to tuberous sclerosis complex. Its gene product is believed to be a tumor suppressor and is able to stimulate specific GTPases. The protein associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. Alternative splicing results in multiple transcript variants encoding different isoforms.

Target Details

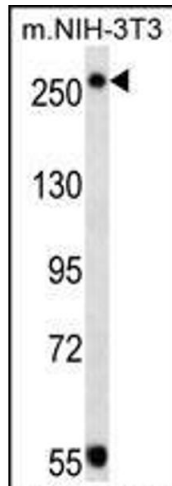
Molecular Weight:	200608
Gene ID:	7249
NCBI Accession:	NP_000539 , NP_001070651 , NP_001107854
UniProt:	P49815
Pathways:	RTK Signaling , AMPK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Cell Size , Tube Formation , Protein targeting to Nucleus

Application Details

Application Notes:	IF: 1:10~50. WB: 1:100
Restrictions:	For Research Use only

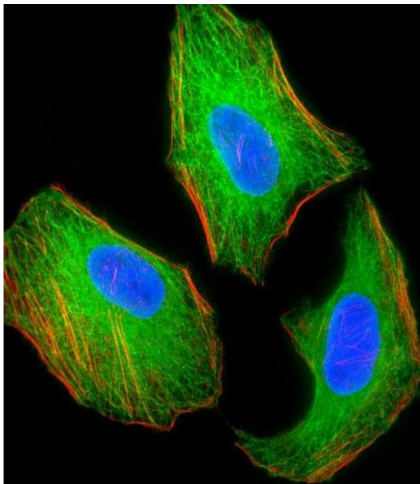
Handling

Format:	Liquid
Buffer:	Purified monoclonal 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
Storage Comment:	TSC2 Antibody can be refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



Western Blotting

Image 1. TSC2 Antibody (ABIN1539797 and ABIN2843773) western blot analysis in mouse NIH-3T3 cell line lysates (35 µg/lane). This demonstrates the TSC2 antibody detected the TSC2 protein (arrow).



Immunofluorescence

Image 2. Fluorescent image of HeLa cell stained with TSC2 Antibody (ABIN1539797 and ABIN2843773)/SG110509. HeLa cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with TSC2 primary antibody (1:25, 1 h at 37 °C. For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:400, 50 min at 37 °C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C. Nuclei were counterstained with DAPI (blue) (10 µg/mL, 10 min). TSC2 immunoreactivity is localized to Microtubules significantly.