

Datasheet for ABIN501075 anti-Tuberin antibody (N-Term)

2 Images

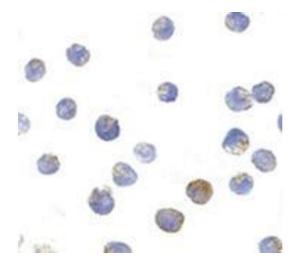


Overview

Overview	
Quantity:	0.1 mg
Target:	Tuberin (TSC2)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tuberin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)
Product Details	
Immunogen:	TSC2 (NT) was raised against a 14 amino acid peptide from near the amino terminus of human TSC2.
Isotype:	IgG
Specificity:	This antibody detects TSC2 at N-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse
Purification:	Peptide affinity chromatography
Target Details	
Target:	Tuberin (TSC2)
Alternative Name:	Tuberin / TSC2 (TSC2 Products)

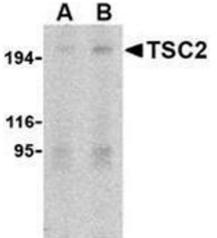
Target Details

Background:	Tuberous sclerosis complex (TSC) is an autosomal dominant tumor syndrome caused by
	mutations in either of the TSC1 or TSC2 tumor suppressor genes. The products of these genes
	form a protein complex that indirectly decreases the signaling of the mammalian Target of
	Rapamycin (TOR), an evolutionarily conserved serine/threonine kinase that regulates cell
	growth and cell cycle through its ability to integrate signals from nutrient levels and growth
	factors (reviewed in 1,2). TOR activity is stimulated by Rheb, a member of the Ras superfamily
	of G-proteins, when the GTP/GDP ratio bound to Rheb is high (3). Immunoprecipitated
	TSC1/TSC2 has been shown to stimulate Rheb GTPase activity in vitro (4), suggesting that the
	TSC1/TSC2 complex decreases the ability of Rheb to stimulate TOR activity. This is supported
	by experiments showing that overexpression of TSC1 and TSC2 results in a significant
	decrease in the GTP/GDP ratio bound to Rheb and the inhibition of cell growth (4,5). At least
	three isoforms of TSC2 exist.Synonyms: TSC4, Tuberous sclerosis 2 protein
Gene ID:	7249
NCBI Accession:	NP_000539
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:	ELISA. Western blot: 1 µg/mL. Immunoflourescence.
	Other applications not tested.
	Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only
Handling	
Buffer:	PBS containing 0.02 % 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunofluorescence

Image 1. Immunocytochemistry of TSC2 in L1210 cells with this product at 10 $\mu g/ml$.



Western Blotting

Image 2. Western blot analysis of TSC2 in L1210 cell lysate with this product at (A) 2 and (B) 4 μ g/ml.