

TSC2 (Phospho Ser1254) rabbit pAb

Cat No.:ES20182

For research use only

Overview

Product Name	TSC2 (Phospho Ser1254) rabbit pAb
Host species	Rabbit
Applications	WB: FLISA
Species Cross-Reactivity	Human:Mouse:Rat
Recommended dilutions	WB 1.1000-2000 FLISA 1.5000-20000
Immunogen	Synthesized pentide derived from human TSC2
	(Phospho Ser1254)
Specificity	This antibody detects endogenous levels of
	Human Mouse Rat TSC2 (Phospho Ser1254)
Formulation	Liquid in PBS containing 50% glycerol 0.5% BSA and
	0.02% sodium azide
Storage	Store at -20° C. Avoid repeated freeze-thaw cycles.
Protein Name	TSC2 (Phospho Ser1254)
Gene Name	TSC2 TSC4
Cellular localization	Cytoplasm, Membrane: Peripheral membrane
	protein. At steady state found in association with
	membranes.
Purification	The antibody was affinity-purified from rabbit
	antiserum by affinity-chromatography using
	epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	73kD
Human Gene ID	7249
Human Swiss-Prot Number	P49815
Alternative Names	Tuberin (Tuberous sclerosis 2 protein)
Background	alternative products:Additional isoforms seem to
	exist. Experimental confirmation may be lacking for
	some isoforms, disease: Defects in TSC2 are a cause
	of lymphangioleiomyomatosis (LAM) [MIM:606690].
	LAM is a progressive and often fatal lung disease
	characterized by a diffuse proliferation of abnormal
	smooth muscle cells in the lungs. It affects almost



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exclusively young women and can occur as an isolated disorder or in association with tuberous sclerosis complex., disease: Defects in TSC2 are the cause of tuberous sclerosis complex (TSC) [MIM:191100]. The molecular basis of TSC is a functional impairment of the tuberin-hamartin complex. TSC is an autosomal dominant multi-system disorder that affects especially the brain, kidneys, heart, and skin. TSC is characterized by hamartomas (benign overgrowths predominantly of a cell or tissue type that occurs normally in the organ) and hamartias (developmental abnormalities of tissue combination). Clinical symptoms can range from benign hypopigmented macules of the skin to profound mental retardation with intractable seizures to premature death from a variety of disease-associated causes., function: Implicated as a tumor suppressor. 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. Specifically stimulates the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. Suggesting a possible mechanism for its role in regulating cellular growth. Mutations in TSC2 leads to constitutive activation of RAP1A in tumors.,online information:TSC2 mutation db,PTM:Phosphorylation at Ser-1387, Ser-1418 or Ser-1420 does not affect interaction with TSC1., similarity: Contains 1 Rap-GAP domain., subcellular location: At steady state found in association with membranes., subunit: Interacts with TSC1 and HERC1; the interaction with TSC1 stabilizes TSC2 and prevents the interaction with HERC1. May also interact with the adapter molecule RABEP1. The final complex contains TSC2 and RABEP1 linked to RAB5 (Probable). Interacts with HSPA1 and HSPA8., tissue specificity: Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas, skeletal muscle, kidney, lung and placenta.,



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