



TSC2 (Phospho Ser1254) rabbit pAb

Catalog No	BYab-00290
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB; ELISA
Gene Name	TSC2 TSC4
Protein Name	TSC2 (Phospho Ser1254)
Immunogen	Synthesized peptide 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.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:1000-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Tuberin (Tuberous sclerosis 2 protein)
Observed Band	73kD
Cell Pathway	Cytoplasm. Membrane; Peripheral membrane protein. At steady state found in association with membranes.
Tissue Specificity	Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas, skeletal muscle, kidney, lung and placenta.
Function	embryonic epithelial tube formation, neural tube formation, neural tube closure, regulation of cell-matrix adhesion,morphogenesis of an epithelium, acute inflammatory response, protein complex assembly, negative regulation of protein kinase activity, protein targeting, protein import into nucleus, intracellular protein transport, endocytosis,nucleocytoplasmic transport, chemotaxis, defense response, acute-phase response, inflammatory response, cell surface receptor linked signal transduction, enzyme linked receptor protein signaling pathway, transmembrane receptor protein tyrosine kinase signaling pathway, intracellular signaling cascade, protein kinase cascade, heart development, behavior, locomotory behavior, protein localization, negative regulation of cell proliferation, regulation of cell size, response to

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wounding, embryonic development ending in birth or egg hatching, negative reg

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 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 tuberlin-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.,

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

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