

Tuberin Polyclonal Antibody

Catalog No: YT4776

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Tuberin

Fields: >>Phospholipase D signaling pathway;>>p53 signaling pathway;>>Autophagy -

animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK

signaling pathway;>>Longevity regulating pathway;>>Cellular

senescence;>>Thermogenesis;>>Insulin signaling pathway;>>Thyroid hormone signaling pathway;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Herpes simplex virus 1 infection;>>Choline metabolism in cancer

Gene Name: TSC2

Protein Name: Tuberin

Human Gene Id: 7249

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Rat Gene Id: 24855

Rat Swiss Prot No: P49816

Immunogen: The antiserum was produced against synthesized peptide derived from human

Tuberin. AA range:947-996

Specificity: Tuberin Polyclonal Antibody detects endogenous levels of Tuberin protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source : Polyclonal, Rabbit, IgG

P49815

Q61037

1/3



Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 210kD

Cell Pathway: Insulin Receptor; mTOR; B Cell Receptor; PI3K/Akt; AMPK

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. [provided by RefSeq, Jul 2008],

Function: 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 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 (de

Subcellular Location:

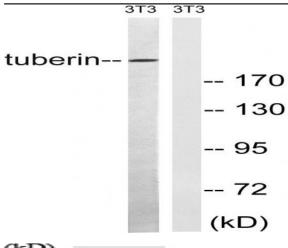
Cytoplasm. Membrane; Peripheral membrane protein. At steady state found in

association with membranes.

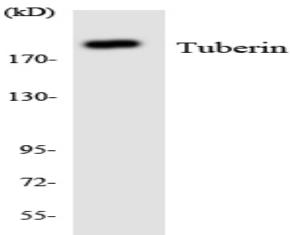
Expression: Liver, brain, heart, lymphocytes, fibroblasts, biliary epithelium, pancreas,

skeletal muscle, kidney, lung and placenta.

Products Images



Western blot analysis of lysates from NIH/3T3 cells, using Tuberin Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using Tuberin antibody.