

Product Name: Hamartin Rabbit Polyclonal Antibody
Catalog #: APRab11891



Summary

Production Name	Hamartin Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	TSC1 KIAA0243 TSC
Alternative Names	tuberous sclerosis 1
Gene ID	7248.0
SwissProt ID	Q92574.Synthesized peptide derived from Hamartin . at AA range: 360-440

Application

Dilution Ratio	WB 1:500-2000, ELISA 1:10000-20000
Molecular Weight	130kD

Background

This gene encodes a growth inhibitory protein thought to play a role in the stabilization of tuberin. Mutations in this gene have been associated with tuberous sclerosis. Alternative splicing results in multiple transcript variants. [provided by

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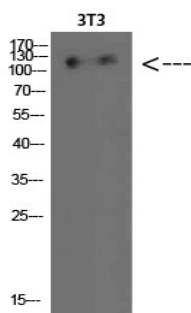


RefSeq, Jun 2009],disease:Defects in TSC1 are the cause of tuberous sclerosis complex (TSC) [MIM:191100]. The molecular basis of TSC is a functional impairment of the hamartin-tuberin complex. TSC is an autosomal dominant multi-system disorder that affects especially the brain, kidneys, heart, and skin. 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.,disease:Defects in TSC1 may be a cause of focal cortical dysplasia of Taylor balloon cell type (FCDBC) [MIM:607341]. FCDBC is a subtype of cortical dysplasias linked to chronic intractable epilepsy. Cortical dysplasias display a broad spectrum of structural changes, which appear to result from changes in proliferation, migration, differentiation, and apoptosis of neuronal precursors and neurons during cortical development.,domain:The C-terminal putative coiled-coil domain is necessary for interaction with TSC2.,function:Implicated as a tumor suppressor. May have a function in vesicular transport. Interaction between TSC1 and TSC2 may facilitate vesicular docking.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,PTM:Phosphorylation at Ser-505 does not affect interaction with TSC2.,subcellular location:At steady state found in association with membranes.,subunit:Interacts with TSC2, leading to stabilize TSC2. In the absence of TSC2, TSC1 self-aggregates. Interacts with DOCK7.,tissue specificity:Highly expressed in skeletal muscle, followed by heart, brain, placenta, pancreas, lung, liver and kidney. Also expressed in embryonic kidney cells.,

Research Area

mTOR;Insulin_Receptor;

Image Data



Western Blot analysis of 3T3 cells using Hamartin Polyclonal Antibody diluted at 1:500. Secondary antibody was diluted at 1:20000

Note

For research use only.