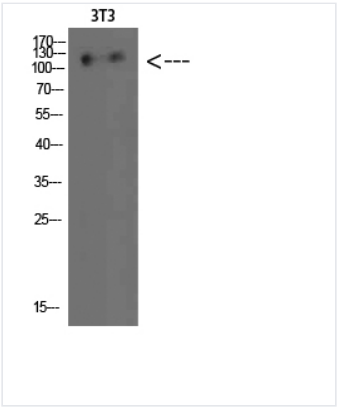
Hamartin (TSC1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Hamartin (TSC1), Polyclonal Antibody
Full Product Name	Hamartin Polyclonal Antibody
Product Gene Name	anti-TSC1 antibody
Product Synonym Names	tuberous sclerosis 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	1164
OMIM	gene 607341
3D Structure	ModBase 3D Structure for Q92574
Applications Tested/Suitable for anti-TSC1 antibody	Western Blot (WB)
Related Product Information for anti-TSC1 antibody	In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (PubMed:28215400). Seems not to be required for TSC2 GAP activity towards RHEB (PubMed:29127155).
Other Notes	Small volumes of anti-TSC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TSC1 purchase	MBS9246374 is an antibody targeting TSC1. Also known as Hamartin Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Wester Blot (WB) of anti-TSC1 antibody
Dilution: WB 1:500-2000, ELISA 1:10000-20000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TSC1. It may not necessarily be applicable to this product.

NCBI GI #	9297077
NCBI GeneID	7248
NCBI Accession #	Q92574.2
UniProt Primary Accession #	Q92574
UniProt Secondary Accession #	Q5VVN5; B7Z897
UniProt Related Accession #	Q92574
NCBI Official Full Name	Hamartin
NCBI Official Synonym Full Names	tuberous sclerosis 1
NCBI Official Symbol	TSC1
NCBI Official Synonym Symbols	LAM; TSC
UniProt Protein Name	Hamartin
UniProt Synonym Protein Names	Tuberous sclerosis 1 protein
Protein Family	Hamartin
UniProt Gene Name	TSC1
UniProt Synonym Gene Names	KIAA0243; TSC
UniProt Entry Name	TSC1_HUMAN
NCBI Protein Information	hamartin; tumor suppressor; tuberous sclerosis 1 protein
NCBI Summary for TSC1	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 RefSeq, Jun 2009]
UniProt Comments for TSC1	TSC1: tuberous sclerosis protein 1 (TSC1). May have tumor suppressor activity. Together with tuberin (TSC2), inhibits mammalian target of rapamycin (mTOR)-mediated signaling to eukaryotic initiation factor 4E-binding protein 1 (4E-BP1) and ribosomal protein S6 kinase. Regulated by the phosphatidylinositol 3-kinase/Akt pathway and phosphorylation of tuberin. Phosphorylated by cyclin-dependent kinase 1/cyclin B during the cell cycle. Protein type: Tumor suppressor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 9q34 Cellular Component: TSC1-TSC2 complex; growth cone; protein complex; membrane; intracellular membrane-bound organelle; lamellipodium; cytoplasm; plasma membrane; actin filament; cell cortex; cytosol Molecular Function: protein binding; chaperone binding; protein N-terminus binding; GTPase activating protein binding; GTPase regulator activity Biological Process: myelination; regulation of cell cycle; protein heterooligomerization; regulation of cell-matrix adhesion; cell-matrix adhesion; negative regulation of insulin receptor signaling pathway; negative regulation of cell size; regulation of phosphoprotein phosphatase activity; cardiac muscle cell differentiation; response to insulin stimulus; regulation of translation; negative regulation of cell proliferation; positive regulation of focal adhesion formation; cell projection organization and biogenesis; synapse organization and biogenesis; cell cycle arrest; kidney development; potassium ion transport; negative regulation of TOR signaling pathway; protein stabilization; hippocampus development; rRNA export from nucleus; negative regulation of translation; glucose import; regulation of stress fiber formation; neural tube closure; insulin receptor signaling pathway; cerebral cortex development; regulation of protein kinase activity Disease: Lymphangioleiomyomatosis; Focal Cortical Dysplasia Of Taylor; Tuberous Sclerosis 1
Research Articles on TSC1	**1.** TSC1 acute down-regulation is detrimental to the survival of both primary and transformed T cells

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