TSC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TSC1, Polyclonal Antibody
Full Product Name	TSC1 (Phospho-Thr1043) (Mouse) Rabbit pAb
Product Gene Name	anti-TSC1 antibody
Product Synonym Names	Hamartin; Tuberous sclerosis 1 protein homolog; Tsc1; Kiaa0243
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB41241
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by two-step phosphospecific peptide affinity purification.
Purity/Purification	Affinity Purified
3D Structure	ModBase 3D Structure for Q9EP53
Immunogen	This mouse TSC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T1043 of mouse TSC1.
Cellular Localization	Cytoplasm, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TSC1 antibody	Dot Blot (DB)
Application Notes for anti-TSC1 antibody	DB: 1:500
Related Product Information for anti-TSC1 antibody	MBS8554275 is an antibody targeting TSC1. Also known as TSC1 (Phospho-Thr1043) (Mouse) Rabbit pAb. Reactive in Mouse. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	575771884
NCBI GeneID	64930
NCBI Accession #	NP_001276504.1
UniProt Primary Accession #	Q9EP53
UniProt Related Accession #	Q9EP53
GenBank Nucleotide #	NP_001276504.1

NCBI Official Full Name	hamartin isoform 1
NCBI Official Synonym Full Names	TSC complex subunit 1
NCBI Official Symbol	Tsc1
UniProt Protein Name	Hamartin
UniProt Synonym Protein Names	Tuberous sclerosis 1 protein homolog
Protein Family	Hamartin
UniProt Gene Name	Tsc1
UniProt Synonym Gene Names	Kiaa0243
UniProt Entry Name	TSC1_MOUSE
NCBI Protein Information	hamartin
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 Cellular Component: TSC1-TSC2 complex; growth cone; protein complex; cytoskeleton; membrane; intracellular membrane-bound organelle; lamellipodium; cytoplasm; plasma membrane; actin filament; cell cortex; cytosol Molecular Function: protein binding; chaperone binding; GTPase activating protein binding; protein N-terminus binding; GTPase regulator activity Biological Process: myelination; protein heterooligomerization; regulation of cell cycle; 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; cell projection organization and biogenesis; positive regulation of focal adhesion formation; synapse organization and biogenesis; kidney development; potassium ion transport; nervous system development; regulation of GTPase activity; negative regulation of TOR signaling pathway; protein stabilization; hippocampus development; rRNA export from nucleus; embryonic development; regulation of actin cytoskeleton organization and biogenesis; glucose import; regulation of stress fiber formation; negative regulation of translation; neural tube closure; regulation of focal adhesion formation; cerebral cortex development; regulation of protein kinase activity
Research Articles on TSC1	**1.** Data show that the number of apoptotic cells was increased in tuberous sclerosis complex 1 knockout (TSC1fl/fl) mice.
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