TSC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TSC2, Polyclonal Antibody
Full Product Name	Phospho-TSC2-T1462 pAb
Product Gene Name	anti-TSC2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	25kDa; 187-200kDa
OMIM	191092
3D Structure	ModBase 3D Structure for P49815
Immunogen	A phospho specific peptide corresponding to residues surrounding T1462 of human TSC2
Antibody Type	Phosphorylated Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TSC2 antibody	Western Blot (WB)
Application Notes for anti-TSC2 antibody	WB: 1:500-1:2000
Related Product Information for anti-TSC2 antibody	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.
Other Notes	Small volumes of anti-TSC2 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 TSC2 purchase	MBS8574692 is an antibody targeting TSC2. Also known as Phospho-TSC2-T1462 pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TSC2. It may not necessarily be applicable to this product.

NCBI GI #	116256352
NCBI GeneID	7249
NCBI Accession #	NP_000539.2

UniProt Primary Accession #	P49815
UniProt Related Accession #	P49815
GenBank Nucleotide #	NP_000539.2
NCBI Official Full Name	tuberin isoform 1
NCBI Official Synonym Full Names	TSC complex subunit 2
NCBI Official Symbol	TSC2
NCBI Official Synonym Symbols	LAM; TSC4; PPP1R160
UniProt Protein Name	Tuberin
UniProt Synonym Protein Names	Tuberous sclerosis 2 protein
Protein Family	Tuberin
UniProt Gene Name	TSC2
UniProt Synonym Gene Names	TSC4
UniProt Entry Name	TSC2_HUMAN
NCBI Protein Information	tuberin
UniProt Comments for TSC2	TSC2: a product of the tumor suppressor gene TSC2. Tuberin and Hamartin (TSC1) form a tumor suppressor heterodimer that inhibits the mTOR nutrient signaling input. TSC1/TSC2 targets the small G protein Rheb, a novel mediator of the nutrient signaling input to mTOR. Functions as a Rheb GTPase activating protein (GAP). Four alternatively spliced isoforms have been described. Protein type: Tumor suppressor; GAPs, misc.; Cell cycle regulation; Nuclear receptor co-regulator; GAPs Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: TSC1-TSC2 complex; Golgi apparatus; cytoskeleton; growth cone; membrane; cell soma; perinuclear region of cytoplasm; cytoplasm; dendrite; caveola; nucleus; cytosol Molecular Function: protein binding; protein homodimerization activity; protein heterodimerization activity; GTPase activator activity; phosphatase binding Biological Process: negative regulation of MAP kinase activity; phosphoinositide 3-kinase cascade; regulation of insulin receptor signaling pathway; negative regulation of Wnt receptor signaling pathway; nerve growth factor receptor signaling pathway; protein heterooligomerization; regulation of cell cycle; heart development; negative regulation of insulin receptor signaling pathway; negative regulation of cell size; negative regulation of cell proliferation; protein localization; positive chemotaxis; cell projection organization and biogenesis; protein import into nucleus; regulation of endocytosis; acute-phase response; protein kinase B signaling cascade; cell cycle arrest; protein homooligomerization; negative regulation of epithelial cell proliferation; epidermal growth factor receptor signaling pathway; negative regulation of TOR signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; negative regulation of protein kinase B signaling cascade; endocytosis; vesicle-mediated transport; insulin-like growth factor receptor signaling pathway; glucose import; neural tube closure; insulin receptor signaling pathway; response to hypoxia; innate immune response; negative regulation of protein kinase activity; positive regulation of transcription from RNA polymerase II promoter; negative regulation of phosphoinositide 3-kinase cascade Disease: Lymphangioleiomyomatosis; Tuberous Sclerosis 2
Research Articles on TSC2	**1.** Eosinophilic solid and cystic renal cell carcinoma consistently harbors actionable TSC1 or TSC2 mutations
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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