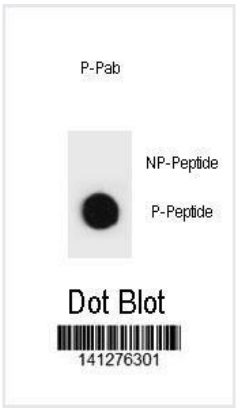
TSC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TSC2, Polyclonal Antibody
Full Product Name	TSC2, Phosphorylated (T1373) (Tsc2, Tuberin, Tuberous sclerosis 2 protein homolog) (Biotin)
Product Gene Name	anti-TSC2 antibody
Product Synonym Names	Tsc2; Tuberin; Tuberous sclerosis 2 protein homolog
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	194,006 Da
3D Structure	ModBase 3D Structure for P49816
Immunogen	Rat TSC2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T1373 of rat TSC2.
Conjugate	Biotin
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-TSC2 antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-TSC2 antibody	ELISA (EIA), Dot Blot (DB)
Application Notes for anti-TSC2 antibody	ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TSC2 antibody	Acts as a tumor suppressor; may play a role in cell cycle regulation; acute phase response, and negative regulation of cell proliferation [RGD].
Product References and Citations for anti-TSC2 antibody	Larson, Y., et al. J. Biol. Chem. 285(32):24987-24998(2010). Sajankila, S.P., et al. Mol. Cell. Biochem. 338 (1-2), 233-239 (2010): Inoue, H., et al. Biosci. Biotechnol. Biochem. 73(11):2488-2493(2009). Di Nardo, A., et al. J. Neurosci. 29(18):5926-5937(2009). Shiono, M., et al. Oncogene 27(52):6690-6697(2008).
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	MBS6359388 is an antibody targeting TSC2. Also known as TSC2, Phosphorylated (T1373) (Tsc2, Tuberin, Tuberous sclerosis 2 protein homolog) (Biotin). Reactive in Rat. Host: Rabbit.



Dot Blot (DB) of anti-TSC2 antibody
Dot blot analysis of rat TSC2 Antibody (Phospho T1373) Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

ADDITIONAL DETAILS

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

NCBI GI #	31543896
NCBI GeneID	24855
NCBI Accession #	NP_036812.2
UniProt Primary Accession #	P49816
UniProt Related Accession #	P49816
GenBank Nucleotide #	NM_012680.3
NCBI Official Full Name	tuberin
NCBI Official Synonym Full Names	tuberous sclerosis 2
NCBI Official Symbol	Tsc2
NCBI Official Synonym Symbols	Rc
UniProt Protein Name	Tuberin
UniProt Synonym Protein Names	Tuberous sclerosis 2 protein homolog
Protein Family	Tuberin
UniProt Gene Name	Tsc2
UniProt Entry Name	TSC2_RAT
NCBI Protein Information	tuberin
NCBI Summary for TSC2	acts as a tumor suppressor; may play a role in cell cycle regulation; acute phase response, and negative regulation of cell proliferation [RGD, Feb 2006]
UniProt Comments for TSC2	In complex with TSC1, this tumor suppressor inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1. May also play a role in microtubule-mediated protein transport. Also stimulates the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5.
Research Articles on TSC2	**1.** oxidative stress induces Tnfaip8 l1/Oxi-beta, which results in increased autophagy by its exclusive binding with FBXW5 to stabilize TSC2

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