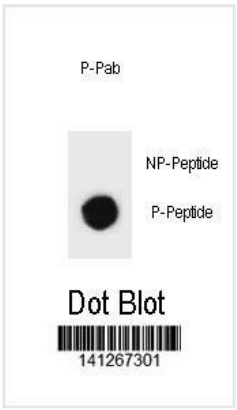
TSC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TSC1, Polyclonal Antibody
Full Product Name	TSC1, Phosphorylated (S312) (Tsc1, Hamartin, Tuberous sclerosis 1 protein homolog) (Azide free) (HRP)
Product Gene Name	anti-TSC1 antibody
Product Synonym Names	Tsc1; Hamartin; Tuberous sclerosis 1 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 Horseradish Peroxidase (HRP).
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. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	129,022 Da
3D Structure	ModBase 3D Structure for Q9Z136
Immunogen	Rat TSC1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S312 of rat TSC1.
Conjugate	HRP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-TSC1 antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-TSC1 antibody	ELISA (EIA), Dot Blot (DB)
Application Notes for anti-TSC1 antibody	ELISA: 1:1,000 Applications are based on unconjugated antibody.
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 (By similarity). Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity).
Product References and Citations for anti-TSC1 antibody	Inoue, H., et al. Biosci. Biotechnol. Biochem. 73(11):2488-2493(2009). Di Nardo, A., et al. J. Neurosci. 29(18):5926-5937(2009). Chen, P., et al. Exp. Mol. Pathol. 86(2):101-107(2009). Momose, S., et al. Biochem. Biophys. Res. Commun. 356(3):693-698(2007). Goncharova, E., et al. J. Cell Biol. 167(6):1171-1182(2004).
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	MBS6358994 is an antibody targeting TSC1. Also known as TSC1, Phosphorylated (S312) (Tsc1, Hamartin, Tuberous sclerosis 1 protein homolog) (Azide free) (HRP). Reactive in Rat. Host: Rabbit.



Dot Blot (DB) of anti-TSC1 antibody
Dot blot analysis of rat TSC1 Antibody (Phospho S312) 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 TSC1. It may not necessarily be applicable to this product.

NCBI GI #	11177894
NCBI GeneID	60445
NCBI Accession #	NP_068626.1
UniProt Primary Accession #	Q9Z136
UniProt Related Accession #	Q9Z136
GenBank Nucleotide #	NM_021854.1
NCBI Official Full Name	hamartin
NCBI Official Synonym Full Names	tuberous sclerosis 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 Entry Name	TSC1_RAT
NCBI Protein Information	hamartin; tuberous sclerosis 1 protein homolog
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