

Rabbit Phospho-rat TSC1 (Y297) Polyclonal Antibody | anti-Tsc1 antibody

Phospho-rat TSC1 (Y297) Antibody

CATALOG # AAA283645	HOST Rabbit	REACTIVITY Rat	APPLICATIONS ELISA, Dot Blot
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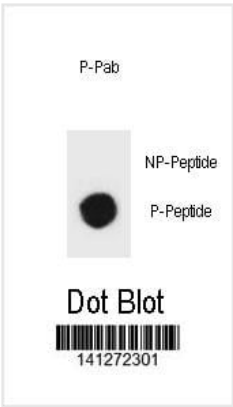
PRODUCT SYNONYMS

Phospho-rat TSC1 (Y297); Polyclonal Antibody; Phospho-rat TSC1 (Y297) Antibody; Hamartin; Tuberous sclerosis 1 protein homolog; Tsc1; anti-Tsc1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This rat TSC1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y297 of rat TSC1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	1163
Applicable Applications for anti-Tsc1 antibody	ELISA, DB (Dot Blot)
Function	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 (PubMed:). Acts as a co-chaperone for HSP90AA1 facilitating HSP90AA1 chaperoning of protein clients such as kinases, TSC2 and glucocorticoid receptor NR3C1 (By similarity). Increases ATP binding to HSP90AA1 and inhibits HSP90AA1 ATPase activity (By similarity). Competes with the activating co-chaperone AHSA1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins (By similarity). Recruits TSC2 to HSP90AA1 and stabilizes TSC2 by preventing the interaction between TSC2 and ubiquitin ligase HERC1 (By similarity).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q92574}. Membrane {ECO:0000250 UniProtKB:Q92574}; Peripheral membrane protein {ECO:0000250 UniProtKB:Q92574}. Note=At steady state found in association with membranes. {ECO:0000250 UniProtKB:Q92574}
Tissue Location	Highly expressed in brain, spleen and kidney, followed by liver and heart
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



DB (Dot Blot)
Dot blot analysis of rat TSC1 Antibody (Phospho Y297) 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 INFORMATION

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 Categories/Family for anti-Tsc1 antibody	Phospho Antibodies
References	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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	11177894
NCBI GeneID	60445
NCBI Accession #	NP_068626.1
NCBI GenBank Nucleotide #	NM_021854.1
UniProt Accession #	Q9Z136
Molecular Weight	129022
NCBI Official Full Name	hamartin
NCBI Official Synonym Full Names	tuberous sclerosis 1
NCBI Official Symbol	Tsc1
NCBI Protein Information	hamartin
UniProt Protein Name	Hamartin
UniProt Gene Name	Tsc1
UniProt Entry Name	TSC1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phospho-rat-tsc1-y297-antibody-dot-blot-elisa/283645>