

Rabbit Phospho-mouse TSC2 (S1343) Polyclonal Antibody | anti-Tsc2 antibody

Phospho-mouse TSC2 (S1343) Antibody

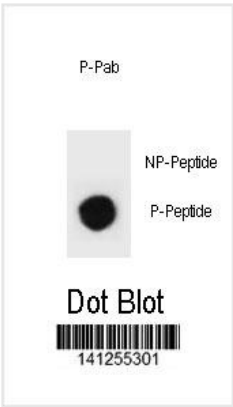
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288358	Rabbit	Mouse (Predicted Reactivity: Rat)	ELISA, Dot Blot

PRODUCT SYNONYMS

Phospho-mouse TSC2 (S1343); Polyclonal Antibody; Phospho-mouse TSC2 (S1343) Antibody; Tuberin; Tuberous sclerosis 2 protein homolog; Tsc2; anti-Tsc2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse (Predicted Reactivity: Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This mouse TSC2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S1343 of mouse TSC2.
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	1814
Applicable Applications for anti-Tsc2 antibody	ELISA, DB (Dot Blot)
Function	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.
Cellular Location	Cytoplasm. Membrane; Peripheral membrane protein. Note=At steady state found in association with membranes.
Tissue Location	Widely expressed.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



DB (Dot Blot)
Dot blot analysis of mouse TSC2 Antibody (Phospho S1343) 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-Tsc2 antibody	In complex with TSC1, 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. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity). Specifically stimulates the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. Suggesting a possible mechanism for its role in regulating cellular growth (By similarity).
Product Categories/Family for anti-Tsc2 antibody	Cell Biology; Signal Transduction; Phospho Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	9297076
NCBI GeneID	9297076
UniProt Accession #	Q61037; P97723; P97724; P97725; P97727; Q61007; Q61008; Q9WUF6
Molecular Weight	202071
NCBI Official Full Name	Tuberin
UniProt Protein Name	Tuberin
UniProt Gene Name	Tsc2
UniProt Entry Name	TSC2_MOUSE

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-mouse-tsc2-s1343-antibody-dot-blot-elisa/288358>