

Rabbit TSC1 Polyclonal Antibody | anti-TSC1 antibody

TSC1 Antibody

CATALOG # AAA40202	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Immunocytochemistry, Western Blot, ELISA
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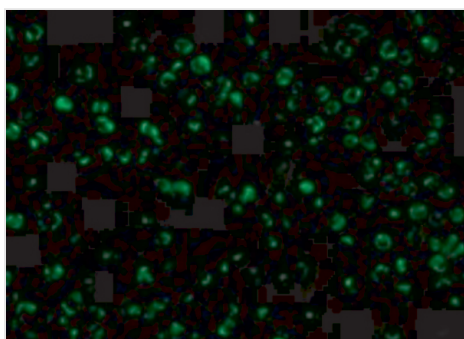
PRODUCT SYNONYMS

TSC1; Polyclonal Antibody; TSC1 Antibody; LAM; TSC; KIAA0243; Hamartin; Tuberous sclerosis 1 protein; tuberous sclerosis 1; anti-TSC1 antibody

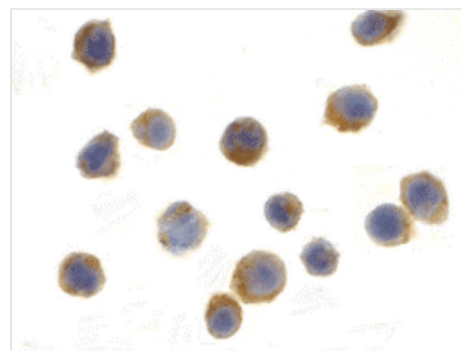
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	TSC1 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	1164
Applicable Applications for anti-TSC1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	TSC1 antibody was raised against a 15 amino acid synthetic peptide from the middle region of human TSC1. TSC1 antibody will recognize both isoforms of TSC1.
Buffer	TSC1 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	TSC1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

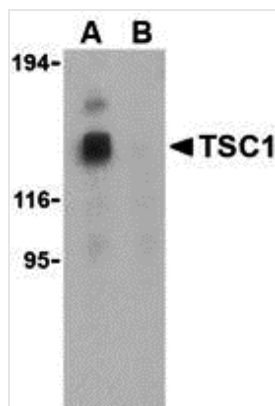
IMAGES


IF (Immunofluorescence)

Immunofluorescence of TSC1 in L1210 cells with TSC1 antibody at 10 &#956;g/mL.


ICC (Immunocytochemistry)

Immunocytochemistry of TSC1 in EL4 cells with TSC1 antibody at 2 &#956;g/mL



WB (Western Blot)

Western blot analysis of TSC1 in EL4 cell lysate with TSC1 antibody at 1 µg/mL in the (A) absence and (B) presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TSC1 antibody

TSC1 Antibody: Tuberous sclerosis complex (TSC) is an autosomal dominant tumor syndrome caused by mutations in either of the TSC1 or TSC2 tumor suppressor genes. The products of these genes form a protein complex that indirectly decreases the signaling of the mammalian Target of Rapamycin (TOR), an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors. TOR activity is stimulated by Rheb, a member of the Ras superfamily of G-proteins, when the GTP/GDP ratio bound to Rheb is high. Immunoprecipitated TSC1/TSC2 has been shown to stimulate Rheb GTPase activity in vitro, suggesting that the TSC1/TSC2 decreases the ability of Rheb to stimulate TOR activity. This is supported by experiments showing overexpression of TSC1 and TSC2 results in a significant decrease in the GTP/GDP ratio bound to Rheb and the inhibition of cell growth. A shorter 40 kDa isoform of TSC1 has been shown to exist but its function is unknown.

NCBI AND UNIPROT INFORMATION

NCBI GI #	2331281
NCBI GeneID	7248
UniProt Accession #	Q92574; Q5VVN5; B7Z897
Molecular Weight	124,015 Da
NCBI Official Full Name	hamartin
NCBI Official Synonym Full Names	tuberous sclerosis 1
NCBI Official Symbol	TSC1
NCBI Official Synonym Symbols	LAM; TSC
NCBI Protein Information	hamartin; tumor suppressor; tuberous sclerosis 1 protein
UniProt Protein Name	Hamartin
UniProt Gene Name	TSC1
UniProt Synonym Gene Names	KIAA0243; TSC
UniProt Entry Name	TSC1_HUMAN

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/tsc1-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/40202>