

Rabbit anti-Human Tuberin (TSC2) Polyclonal Antibody | anti-TSC2 antibody

Tuberin (TSC2) Antibody (S1798)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288658	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Tuberin (TSC2); Polyclonal Antibody; Tuberin (TSC2) Antibody (S1798); Tuberin; Tuberous sclerosis 2 protein; TSC2; TSC4; anti-TSC2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Tuberin (TSC2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1776-1805 amino acids from human Tuberin (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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	1776-1805
Sequence Length	1807
Applicable Applications for anti-TSC2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with TSC2 Antibody (S1798), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



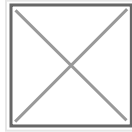
WB (Western Blot)

Western blot analysis of TSC2-pS1798 in Ramos cell line lysates (35ug/lane). TSC2 (arrow) was detected using the purified Pab.



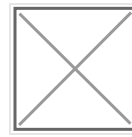
IF (Immunofluorescence)

Fluorescent confocal image of Hela cell stained with Tuberin (TSC2) Antibody (S1798). Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with Tuberin (TSC2) primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). Tuberin (TSC2) immunoreactivity is localized to Cytoplasm significantly.



WB (Western Blot)

Western blot analysis of lysates from PC-3, LNCaP, Hela cell line (from left to right), using Tuberin (TSC2) Antibody. AAA288658 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



WB (Western Blot)

Western blot analysis of lysates from SH-SY5Y, MCF-7, PC-3, LNCaP, Hela, cell line (from left to right), using Tuberin (TSC2) Antibody. AAA288658 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-TSC2 antibody	Mutations in TSC2 lead to tuberous sclerosis complex. This protein is believed to be a tumor suppressor and is able to specifically stimulate the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. TSC2 associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. It may have a function in vesicular transport, but may also play a role in the regulation of cell growth arrest and in the regulation of transcription mediated by steroid receptors. Interaction between TSC1 and TSC2 may facilitate vesicular docking.
Product Categories/Family for anti-TSC2 antibody	Cell Biology ; Metabolism ; Signal transduction
References	Li, Y., et al., Mol. Cell. Biol. 24(18):7965-7975 (2004). Karbowiczek, M., et al., J. Biol. Chem. 279(29):29930-29937 (2004). Corradetti, M.N., et al., Genes Dev. 18(13):1533-1538 (2004). Birchenall-Roberts, M.C., et al., J. Biol. Chem. 279(24):25605-25613 (2004). Lewis, J.C., et al., J. Med. Genet. 41(3):203-207 (2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	116256352
NCBI GeneID	7249
NCBI Accession #	NP_000539.2 ; NP_001070651.1 ; NP_001107854.1
NCBI GenBank Nucleotide #	NM_000548.3
UniProt Accession #	P49815 ; O75275 ; Q4LE71 ; Q8TAZ1 ; A7E2E2 ; B4DIL8 ; B4DIQ7 ; B4DRN2 ; B7Z2B8 ; C9J378
Molecular Weight	200608
NCBI Official Full Name	tuberin isoform 1
NCBI Official Synonym Full Names	tuberous sclerosis 2
NCBI Official Symbol	TSC2
NCBI Official Synonym Symbols	LAM; TSC4; PPP1R160
NCBI Protein Information	tuberin
UniProt Protein Name	Tuberin

UniProt Gene Name	TSC2
UniProt Synonym Gene Names	TSC4
UniProt Entry Name	TSC2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/tuberin-tsc2-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/288658>