

Rabbit anti-Human Hamartin (TSC1) Polyclonal Antibody | anti-TSC1 antibody

Hamartin (TSC1) Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285509	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Hamartin (TSC1); Polyclonal Antibody; Hamartin (TSC1) Antibody (Center); Hamartin; Tuberous sclerosis 1 protein; TSC1; KIAA0243; TSC; anti-TSC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Hamartin (TSC1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 401-430 amino acids from the Central region of human Hamartin (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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	401-430
Sequence Length	1,113
Applicable Applications for anti-TSC1 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



IF (Immunofluorescence)

Confocal immunofluorescent analysis of Hamartin (TSC1) Antibody (Center) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)

Hamartin (TSC1) Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Hamartin (TSC1) Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

TSC1 Antibody (Center) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the TSC1 antibody detected the TSC1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-TSC1 antibody	Implicated as a tumor suppressor. May have a function in vesicular transport. Interaction between TSC1 and TSC2 may facilitate vesicular docking. Defects in TSC1 are the cause of tuberous sclerosis complex (TSC). The molecular basis of TSC is a functional impairment of the hamartin-tuberin complex. TSC is an autosomal dominant multi-system disorder that affects especially the brain, kidneys, heart, and skin. TSC is characterized by hamartomas (benign overgrowths predominantly of a cell or tissue type that occurs normally in the organ) and hamartias (developmental abnormalities of tissue combination). Clinical symptoms can range from benign hypopigmented macules of the skin to profound mental retardation with intractable seizures to premature death from a variety of disease-associated causes. Defects in TSC1 may be a cause of focal cortical dysplasia of Taylor balloon cell type (FCD BC). FCD BC is a subtype of cortical dysplasias linked to chronic intractable epilepsy. Cortical dysplasias display a broad spectrum of structural changes, which appear to result from changes in proliferation, migration, differentiation, and apoptosis of neuronal precursors and neurons during cortical development.
Product Categories/Family for anti-TSC1 antibody	Cancer ; Cell Biology ; Metabolism
References	Wu, J., et al., J. Cutan. Pathol. 31(5):383-387 (2004). Lewis, J.C., et al., J. Med. Genet. 41(3):203-207 (2004). J, et al., J. Child Neurol. 19(2):102-106 (2004). Murthy, V., et al., J. Biol. Chem. 279(2):1351-1358 (2004). Astrinidis, A., et al., J. Biol. Chem. 278(51):51372-51379 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507693
NCBI GeneID	7248
NCBI Accession #	NP_000359.1 ; NP_001155898.1 ; NP_001155899.1
NCBI GenBank Nucleotide #	NM_000368.4
UniProt Accession #	Q92574 ; Q5VVN5 ; B7Z897
Molecular Weight	129767
NCBI Official Full Name	hamartin isoform 1
NCBI Official Synonym Full Names	tuberous sclerosis 1
NCBI Official Symbol	TSC1
NCBI Official Synonym Symbols	LAM; TSC
NCBI Protein Information	hamartin
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/hamartin-tsc1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/285509>