

ARG40883 anti-TSC1 / Hamartin antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TSC1 / Hamartin
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms, Hm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TSC1 / Hamartin
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 1150-1164 of Human Hamartin (QLHIMDYNETHHEHS).
Conjugation	Un-conjugated
Alternate Names	LAM; Tuberous sclerosis 1 protein; Hamartin; TSC

Application Instructions

Application table	Application	Dilution
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

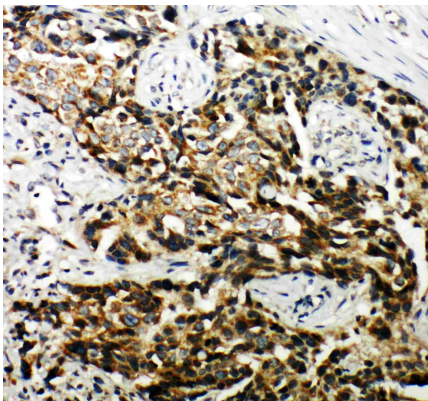
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

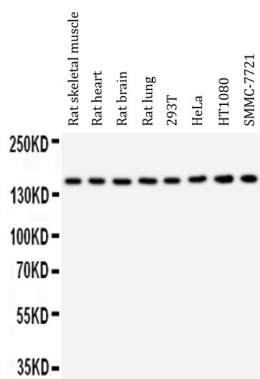
Gene Symbol	TSC1
Gene Full Name	tuberous sclerosis 1
Background	This gene encodes a growth inhibitory protein thought to play a role in the stabilization of tuberin. Mutations in this gene have been associated with tuberous sclerosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2009]
Function	In complex with TSC2, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Seems not to be required for TSC2 GAP activity towards RHEB. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling. [UniProt]
Calculated Mw	130 kDa
PTM	Phosphorylation at Ser-505 does not affect interaction with TSC2. [UniProt]
Cellular Localization	Cytoplasm. Membrane; Peripheral membrane protein. At steady state found in association with membranes. [UniProt]

Images



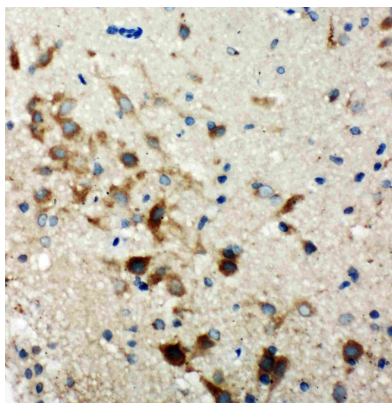
ARG40883 anti-TSC1 / Hamartin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue stained with ARG40883 anti-TSC1 / Hamartin antibody.



ARG40883 anti-TSC1 / Hamartin antibody WB image

Western blot: 50 µg of Rat skeletal muscle, Rat heart, Rat brain, Rat lung, 40 µg of 293T, HeLa, HT1080 and SMMC-7721 whole cell lysates stained with ARG40883 anti-TSC1 / Hamartin antibody at 0.5 µg/ml dilution.



ARG40883 anti-TSC1 / Hamartin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue stained with ARG40883 anti-TSC1 / Hamartin antibody.