

Product datasheet for TA382883S

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Hamartin (TSC1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ELISA, ICC/IF, IHC, WB

Recommended Dilution: WB,1:500 - 1:1000

IHC-P,1:50 - 1:100 IF/ICC,1:50 - 1:100

ELISA,Recommended starting concentration is 1 μg/mL. Please optimize the concentration

based on your specific assay requirements.

Reactivity: Human, Mouse, Rat

Modifications: Unmodified

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Formulation: Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C. Avoid freeze / thaw cycles.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 130kDa

Gene Name: tuberous sclerosis 1

Database Link: Entrez Gene 7248 Human

Q92574



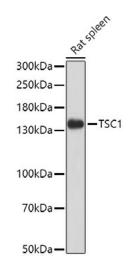
Background:

This gene is a tumor suppressor gene that encodes the growth inhibitory protein hamartin. The encoded protein interacts with and stabilizes the GTPase activating protein tuberin. This hamartin-tuberin complex negatively regulates mammalian target of rapamycin complex 1 (mTORC1) signaling which is a major regulator of anabolic cell growth. This protein also functions as a co-chaperone for Hsp90 that inhibits its ATPase activity. This protein functions as a facilitator of Hsp90-mediated folding of kinase and non-kinase clients, including TSC2 and thereby preventing their ubiquitination and proteasomal degradation. Mutations in this gene have been associated with tuberous sclerosis and lymphangioleiomyomatosis.

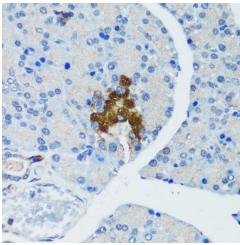
Synonyms:

hamartin; KIAA0243; LAM; MGC86987; OTTHUMP00000022439; OTTHUMP00000198378; TSC

Product images:

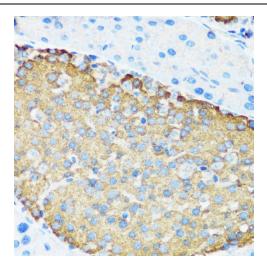


Western blot analysis of lysates from Rat spleen

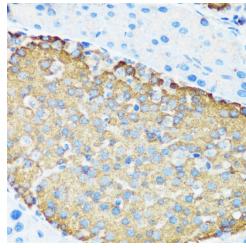


Immunohistochemistry analysis of paraffinembedded Rat pancreatic islet using TSC1 Rabbit pAb ([TA382883]) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.

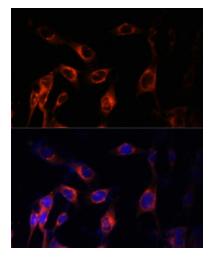




Immunohistochemistry analysis of paraffinembedded Human gastric cancer using TSC1 Rabbit pAb ([TA382883]) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse pancreatic islet using TSC1 Rabbit pAb ([TA382883]) at dilution of 1:200 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunofluorescence analysis of NIH-3T3 cells using TSC1 Rabbit pAb ([TA382883]) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.