

TSC2 Rabbit pAb

Catalog No.: A0491

Basic Information

Observed MW

200kDa

Calculated MW

201kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

Cross-Reactivity

Human, Mouse, Rat

Background

This gene is a tumor suppressor gene that encodes the growth inhibitory protein tuberin. Tuberin interacts with hamartin to form the TSC protein complex which functions in the control of cell growth. This TSC protein complex negatively regulates mammalian target of rapamycin complex 1 (mTORC1) signaling which is a major regulator of anabolic cell growth. Mutations in this gene have been associated with tuberous sclerosis and lymphangioleiomyomatosis.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID

7249

Swiss Prot

P49815

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1160-1255 of human TSC2 (NP_000539.2).

Synonyms

LAM; TSC4; PPP1R160; TSC2

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

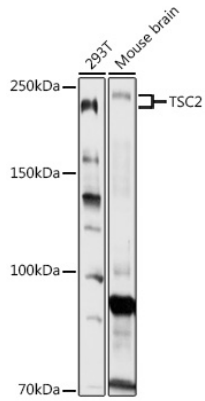
Affinity purification

Storage

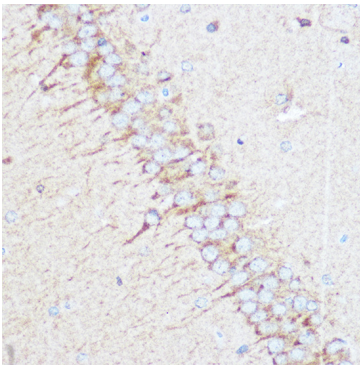
Store at -20°C Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

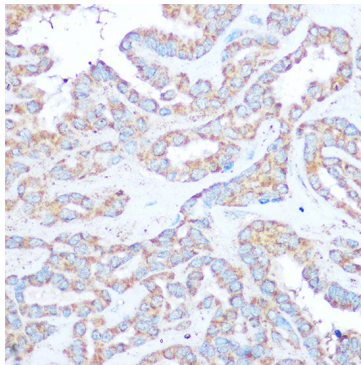
Validation Data



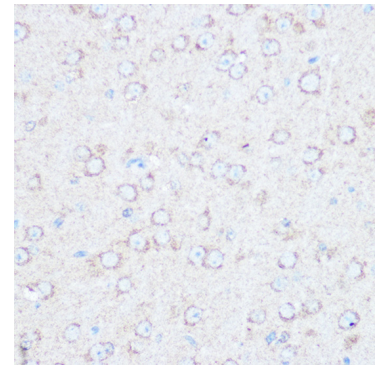
Western blot analysis of various lysates using TSC2 Rabbit pAb (A0491) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded rat brain using TSC2 Rabbit pAb (A0491) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded human thyroid cancer using TSC2 Rabbit pAb (A0491) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded mouse brain using TSC2 Rabbit pAb (A0491) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.