



TSC2 Antibody

Rabbit Polyclonal Antibody Catalog # ABV10750

Specification

TSC2 Antibody - Product Information

Application WB
Primary Accession P49816

Reactivity Human, Mouse,

Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 201278

TSC2 Antibody - Additional Information

Gene ID 24855

Positive Control Jurkat (Induced

and Uninduced), Rat kidney, 3T3 cell lysates

Application & Usage The antibody can

be used for Western blot analysis (1-4 µg/ml). However, the optimal

conditions should be determined individually. Blocking peptide

is available separately.

Other Names

anti-TSC2, Tuberin, Tuberous sclerosis 2

protein homolog

Target/Specificity

TSC2

Antibody Form

Liquid

Appearance Colorless liquid

Formulation

 $200 \ \mu g$ (0.5 mg/ml) affinity purified rabbit anti-TSC2 polyclonal antibody in phosphate

TSC2 Antibody - Background

TSC2 is important in regulating cell proliferation and tumor development. Mutations in either the TSC1 or TSC2 tumor suppressor genes caused tuberous sclerosis complex (TSC), an autosomal dominant tumor syndrome. Tuberin is a product of the TSC2 tumor suppressor gene. Tuberin form a protein complex that indirectly decreases the signaling of the mammalian Target of Rapamycin (TOR).



buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage -20 °C

Background Descriptions

Precautions

TSC2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TSC2 Antibody - Protein Information

Name Tsc2

Function

In complex with TSC1, this tumor suppressor inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (By similarity). Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1 (By similarity). May also play a role in microtubule-mediated protein transport (PubMed:16707451). Also stimulates the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 (PubMed:9045618).

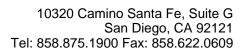
Tissue Location

CNS, uterus, heart, skeletal muscle, kidney and spleen

TSC2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides





- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture