

**TSC2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10750****Specification****TSC2 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P49816</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>201278</b>

**TSC2 Antibody - Additional Information****Gene ID 24855**

Positive Control	<b>Jurkat (Induced and Uninduced), Rat kidney, 3T3 cell lysates</b>
Application & Usage	<b>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.</b>

**Other Names**

anti-TSC2, Tuberin, Tuberous sclerosis 2 protein homolog

**Target/Specificity**

TSC2

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

200 µg (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:<a href="http://www.uniprot.org/citations/16707451" target="\_blank">16707451</a>). Also stimulates the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 (PubMed:<a href="http://www.uniprot.org/citations/9045618" target="\_blank">9045618</a>).

**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](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)