



# Phospho-mouse TSC2(S1365) Blocking Peptide

Synthetic peptide Catalog # BP3825a

## **Specification**

Phospho-mouse TSC2(S1365) Blocking Peptide - Product Information

Primary Accession Other Accession P49816

Phospho-mouse TSC2(S1365) Blocking Peptide - Additional Information

#### **Other Names**

Tuberin, Tuberous sclerosis 2 protein homolog, Tsc2

## **Target/Specificity**

The synthetic peptide sequence is selected from aa 1358-1371 of MOUSE Tsc2

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-mouse TSC2(S1365) Blocking Peptide - Protein Information

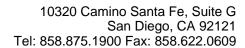
### Name Tsc2

#### **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

# Phospho-mouse TSC2(S1365) Blocking Peptide - Background

In complex with TSC1, inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling. Acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1. Implicated as a tumor suppressor. Involved in microtubule-mediated protein transport, but this seems to be due to unregulated mTOR signaling (By similarity). Specifically stimulates the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. Suggesting a possible mechanism for its role in regulating cellular growth (By similarity).





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" target="\_blank">16707451</a>). Also stimulates the intrinsic GTPase activity of the Ras-related proteins RAP1A and RAB5 (By similarity).

### **Cellular Location**

Cytoplasm. Membrane; Peripheral membrane protein. Note=At steady state found in association with membranes.

**Tissue Location** Widely expressed.

# Phospho-mouse TSC2(S1365) Blocking Peptide - Protocols

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

• Blocking Peptides