

**Phospho-mouse TSC2(S1155) Blocking Peptide**

Synthetic peptide

Catalog # BP3822a

**Specification****Phospho-mouse TSC2(S1155) Blocking Peptide -  
Product Information**Primary Accession [Q61037](#)**Phospho-mouse TSC2(S1155) Blocking Peptide -  
Additional Information****Other Names**Tuberin, Tuberous sclerosis 2 protein  
homolog, Tsc2**Target/Specificity**The synthetic peptide sequence is selected  
from aa 1148-1161 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(S1155) 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  
activator of the protein kinase activity of**Phospho-mouse TSC2(S1155) 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).

mTORC1 (By similarity). May also play a role in microtubule-mediated protein transport (PubMed:<<http://www.uniprot.org/citations/16707451>>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(S1155) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)