

Phospho-rat TSC2(T1373) Blocking Peptide
Synthetic peptide
Catalog # BP3833a**Specification****Phospho-rat TSC2(T1373) Blocking Peptide -
Product Information**

Primary Accession [P49816](#)
Other Accession [NP_036812.2](#)

**Phospho-rat TSC2(T1373) Blocking Peptide -
Additional Information**

Gene ID 24855

Other Names

Tuberin, Tuberous sclerosis 2 protein
homolog, Tsc2

Target/Specificity

The synthetic peptide sequence is selected
from aa 1366-1380 of RAT 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-rat TSC2(T1373) 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).

**Phospho-rat TSC2(T1373) Blocking
Peptide - Background**

acts as a tumor suppressor; may play a role in
cell cycle
regulation; acute phase response, and
negative regulation of cell
proliferation [RGD].

**Phospho-rat TSC2(T1373) Blocking
Peptide - References**

Larson, Y., et al. J. Biol. Chem.
285(32):24987-24998(2010)
Sajankila, S.P., et al. Mol. Cell. Biochem. 338
(1-2), 233-239 (2010) :
Inoue, H., et al. Biosci. Biotechnol. Biochem.
73(11):2488-2493(2009)
Di Nardo, A., et al. J. Neurosci.
29(18):5926-5937(2009)
Shiono, M., et al. Oncogene
27(52):6690-6697(2008)

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

Phospho-rat TSC2(T1373) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)