



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

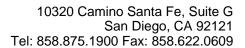
In complex with TSC1, this tumor suppressor inhibits the nutrient-mediated or growth factor-stimulated phosphorylation of S6K1 and EIF4EBP1 by negatively regulating mTORC1 signaling (By similarity).

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" target="_blank">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