

Phospho-TSC1(T519) Blocking Peptide
Synthetic peptide
Catalog # BP3894a**Specification**

Phospho-TSC1(T519) Blocking Peptide - Product Information

Primary Accession [O92574](#)
Other Accession [NP_000359.1](#)

Phospho-TSC1(T519) Blocking Peptide - Additional Information

Gene ID 7248

Other Names

Hamartin, Tuberous sclerosis 1 protein, TSC1, KIAA0243, TSC

Target/Specificity

The synthetic peptide sequence is selected from aa 512-526 of HUMAN TSC1

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-TSC1(T519) Blocking Peptide - Protein Information

Name TSC1 {ECO:0000303|PubMed:9242607, ECO:0000312|HGNC:HGNC:12362}

Function

Non-catalytic component of the TSC-TBC complex, a multiprotein complex that acts as a negative regulator of the canonical mTORC1 complex, an evolutionarily conserved central nutrient sensor that stimulates anabolic reactions and macromolecule biosynthesis to promote cellular biomass generation and growth (PubMed:12172553, PubMed:12906785, PubMed:12271141, PubMed:28215400, PubMed:15340059, PubMed:24529379). The TSC-TBC complex acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1 (PubMed:12906785, PubMed:15340059, PubMed:24529379).

Page 2/3

Mieulet, V., et al. Trends Mol Med 16(7):329-335(2010)

Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)

Guo, L., et al. Acta Biochim. Biophys. Sin. (Shanghai) 42(4):266-273(2010)