

Phospho-TJP2(S978) Blocking Peptide
Synthetic peptide
Catalog # BP3790a**Specification**

Phospho-TJP2(S978) Blocking Peptide - Product Information

Primary Accession [O9UDY2](#)
Other Accession [NP_001164101.1](#)

Phospho-TJP2(S978) Blocking Peptide - Additional Information

Gene ID 9414

Other Names

Tight junction protein ZO-2, Tight junction protein 2, Zona occludens protein 2, Zonula occludens protein 2, TJP2, X104, ZO2

Target/Specificity

The synthetic peptide sequence is selected from aa 971-985 of HUMAN TJP2

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-TJP2(S978) Blocking Peptide - Protein Information

Name TJP2 ([HGNC:11828](#))

Function

Plays a role in tight junctions and adherens junctions (By similarity). Acts as a positive regulator of RANKL-induced osteoclast differentiation, potentially via mediating downstream transcriptional activity (By similarity).

Cellular Location

Cell junction, adherens junction {ECO:0000250|UniProtKB:Q9Z0U1}. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction, tight junction {ECO:0000250|UniProtKB:Q9Z0U1}. Nucleus. Note=Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures. Localizes to tight junctions during initial stages of their formation (By similarity). {ECO:0000250, ECO:0000250|UniProtKB:Q95168}

Tissue Location

This protein is found in epithelial cell junctions. Isoform A1 is abundant in the heart and brain. Detected in brain and skeletal muscle. It is present almost exclusively in normal tissues Isoform C1 is expressed at high level in the kidney, pancreas, heart and placenta. Not detected in brain and skeletal muscle. Found in normal as well as in most neoplastic tissues

Phospho-TJP2(S978) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Phospho-TJP2(S978) Blocking Peptide - Images

Phospho-TJP2(S978) Blocking Peptide - Background

This gene encodes a zonula occluden that is a member of the membrane-associated guanylate kinase homolog family. The encoded protein functions as a component of the tight junction barrier in epithelial and endothelial cells and is necessary for proper assembly of tight junctions. Mutation in this gene have been identified in patients with hypercholanemia. Alternate splicing results in multiple transcript variants.

Phospho-TJP2(S978) Blocking Peptide - References

Lechuga, S., et al. Exp. Cell Res. 316(19):3124-3139(2010)
Remue, E., et al. FEBS Lett. 584(19):4175-4180(2010)
Walsh, T., et al. Am. J. Hum. Genet. 87(1):101-109(2010)
Meerschaert, K., et al. Cell. Mol. Life Sci. 66(24):3951-3966(2009)
Fanning, A.S., et al. Ann. N. Y. Acad. Sci. 1165, 113-120 (2009) :