

PTPN14 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14810b

Specification

PTPN14 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession [Q15678](#)

PTPN14 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 5784

Other Names

Tyrosine-protein phosphatase non-receptor type 14, Protein-tyrosine phosphatase pez, PTPN14, PEZ, PTPD2

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.

PTPN14 Antibody (C-term) Blocking Peptide - Protein Information

Name PTPN14

Synonyms PEZ, PTPD2

Function

Protein tyrosine phosphatase which may play a role in the regulation of lymphangiogenesis, cell-cell adhesion, cell-matrix adhesion, cell migration, cell growth and also regulates TGF-beta gene expression, thereby modulating epithelial-mesenchymal transition. Mediates beta-catenin dephosphorylation at adhesion junctions. Acts as a negative regulator of the oncogenic property of YAP, a downstream target of the hippo pathway, in a cell density-dependent manner. May function as a tumor suppressor.

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Note=Translocation into the nucleus is associated with induction of cell proliferation. Partially colocalized with actin filaments at the plasma membrane

Tissue Location

Ubiquitous.

PTPN14 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PTPN14 Antibody (C-term) Blocking Peptide - Images**PTPN14 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an N-terminal noncatalytic domain similar to that of band 4.1 superfamily cytoskeleton-associated proteins, which suggested the membrane or cytoskeleton localization of this protein. It appears to regulate lymphatic development in mammals, and a loss of function mutation has been found in a kindred with a lymphedema-choanal atresia.

PTPN14 Antibody (C-term) Blocking Peptide - References

Au, A.C., et al. Am. J. Hum. Genet. 87(3):436-444(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Wyatt, L., et al. Cell Cycle 7(15):2290-2295(2008) Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Olsen, J.V., et al. Cell 127(3):635-648(2006)