

PTPRE Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14405a

Specification

PTPRE Antibody (N-term) Blocking Peptide - Product Information

Primary Accession [P23469](#)

PTPRE Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5791

Other Names

Receptor-type tyrosine-protein phosphatase epsilon, Protein-tyrosine phosphatase epsilon, R-PTP-epsilon, PTPRE

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.

PTPRE Antibody (N-term) Blocking Peptide - Protein Information

Name PTPRE

Function

Isoform 1 plays a critical role in signaling transduction pathways and phosphoprotein network topology in red blood cells. May play a role in osteoclast formation and function (By similarity).

Cellular Location

[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Cytoplasm.

Tissue Location

Expressed in giant cell tumor (osteoclastoma rich in multinucleated osteoclastic cells).

PTPRE Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PTPRE Antibody (N-term) Blocking Peptide - Images

PTPRE Antibody (N-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. Two alternatively spliced transcript variants of this gene have been reported, one of which encodes a receptor-type PTP that possesses a short extracellular domain, a single transmembrane region, and two tandem intracytoplasmic catalytic domains; Another one encodes a PTP that contains a distinct hydrophilic N-terminus, and thus represents a nonreceptor-type isoform of this PTP. Studies of the similar gene in mice suggested the regulatory roles of this PTP in RAS related signal transduction pathways, cytokines induced SATA signaling, as well as the activation of voltage-gated K⁺ channels. [provided by RefSeq].

PTPRE Antibody (N-term) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010) Barr, A.J., et al. Cell 136(2):352-363(2009) Kraut-Cohen, J., et al. J. Biol. Chem. 283(8):4612-4621(2008) Tremblay, K., et al. PLoS ONE 3 (8), E2907 (2008) :