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PTP epsilon Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP8416a

Specification

PTP epsilon Antibody (C-term) Blocking peptide - Product Information

Primary Accession P23469

PTP epsilon Antibody (C-term) Blocking peptide - Additional Information

Gene ID 5791

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8416a was selected from the C-term region of human PTPepsilon . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PTP epsilon Antibody (C-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).

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PTP epsilon Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

PTP epsilon Antibody (C-term) Blocking peptide - Images

PTP epsilon Antibody (C-term) Blocking peptide - Background

PTPepsilon 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 the 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.

PTP epsilon Antibody (C-term) Blocking peptide - References

Toledano-Katchalski, H., et al., Mol. Cell. Biol. 23(15):5460-5471 (2003).Blanchetot, C., et al., J. Biol. Chem. 277(49):47263-47269 (2002).Wabakken, T., et al., Scand. J. Immunol. 56(3):276-285 (2002).Wabakken, T., et al., Scand. J. Immunol. 56(2):195-203 (2002).Tanuma, N., et al., J. Biol. Chem. 275(36):28216-28221 (2000).