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PTP4A1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16923b

Specification

PTP4A1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q93096

PTP4A1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 7803

Other Names
Protein tyrosine phosphatase type IVA 1, PTP(CAAXI), Protein-tyrosine phosphatase 4a1, Protein-tyrosine phosphatase of regenerating liver 1, PRL-1, PTP4A1, PRL1, PTPCAAX1

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.

PTP4A1 Antibody (C-term) Blocking Peptide - Protein Information

Name PTP4A1

Synonyms PRL1, PTPCAAX1

Function
Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. May play a role in the development and maintenance of differentiating epithelial tissues. Enhances cell proliferation, cell motility and invasive activity, and promotes cancer metastasis.

Cellular Location
Cell membrane; Lipid-anchor. Early endosome. Endoplasmic reticulum. Cytoplasm Cytoplasm, cytoskeleton, spindle. Nucleus {ECO:0000250|UniProtKB:Q78EG7}. Note=And mitotic spindle

Tissue Location
Expressed in bone marrow, lymph nodes, T lymphocytes, spleen, thymus and tonsil. Overexpressed in tumor cell lines.

PTP4A1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PTP4A1 Antibody (C-term) Blocking Peptide - Images

PTP4A1 Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene belongs to a small classof prenylated protein tyrosine phosphatases (PTPs), which containsa PTP domain and a characteristic C-terminal prenylation motif.PTPs are cell signaling molecules that play regulatory roles in avariety of cellular processes. This tyrosine phosphatase is anuclear protein, but may primarily associate with plasma membrane.The surface membrane association of this protein depends on itsC-terminal prenylation. Overexpression of this gene in mammaliancells conferred a transformed phenotype, which implicated its rolein the tumorigenesis. Studies in rat suggested that this gene maybe an immediate-early gene in mitogen-stimulated cells. [providedby RefSeq].

PTP4A1 Antibody (C-term) Blocking Peptide - References

Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :Skinner, A.L., et al. Biochemistry 48(20):4262-4272(2009)Luo, Y., et al. Biochemistry 48(8):1838-1846(2009)Min, S.H., et al. Oncogene 28(4):545-554(2009)Liu, Y.Q., et al. Arch. Pathol. Lab. Med. 132(8):1307-1312(2008)