

PTP4A1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16923b**Specification**

PTP4A1 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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 class of prenylated protein tyrosine phosphatases (PTPs), which contains a PTP domain and a characteristic C-terminal prenylation motif. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. This tyrosine phosphatase is a nuclear protein, but may primarily associate with plasma membrane. The surface membrane association of this protein depends on its C-terminal prenylation. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which implicated its role in tumorigenesis. Studies in rat suggested that this gene may be an immediate-early gene in mitogen-stimulated cells. [provided by 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)