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PTP4A1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16923b

Specification

PTP4A1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q93096
Other Accession	Q78EG7, Q63739, Q9TSM6, NP_003454.1
Reactivity	**Human, Mouse**
Predicted	**Monkey, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**19815**
Antigen Region	**140-168**

PTP4A1 Antibody (C-term) - 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

Target/Specificity
This PTP4A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 140-168 amino acids from the C-terminal region of human PTP4A1.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PTP4A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PTP4A1 Antibody (C-term) - 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

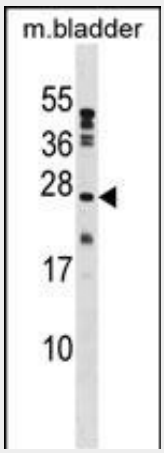
Tissue Location
Expressed in bone marrow, lymph nodes, T lymphocytes, spleen, thymus and tonsil. Overexpressed in tumor cell lines.

PTP4A1 Antibody (C-term) - Protocols

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

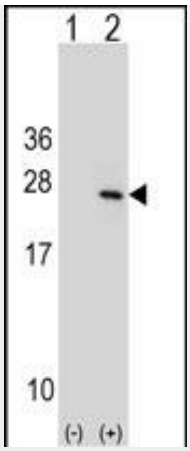
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PTP4A1 Antibody (C-term) - Images



PTP4A1 Antibody (C-term) (Cat. #AP16923b) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the PTP4A1 antibody detected the PTP4A1 protein (arrow).

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Western blot analysis of PTP4A1 (arrow) using rabbit polyclonal PTP4A1 Antibody (C-term) (Cat. #AP16923b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PTP4A1 gene.

PTP4A1 Antibody (C-term) - 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 the 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) - 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)