

Anti-PTP4A2 Picoband Antibody
Catalog # ABO12426**Specification****Anti-PTP4A2 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	Q12974
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Protein tyrosine phosphatase type IVA 2 (PTP4A2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PTP4A2 Picoband Antibody - Additional Information

Gene ID 8073

Other Names

Protein tyrosine phosphatase type IVA 2, 3.1.3.48, HU-PP-1, OV-1, PTP(CAAXII), Protein-tyrosine phosphatase 4a2, Protein-tyrosine phosphatase of regenerating liver 2, PRL-2, PTP4A2, PRL2, PTPCAAX2

Calculated MW

19127 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cell membrane. Early endosome. Cytoplasm.

Tissue Specificity

Ubiquitously expressed, with highest levels in skeletal muscle, heart and thymus. Overexpressed in prostate tumor tissue. .

Protein Name

Protein tyrosine phosphatase type IVA 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human PTP4A2 (40-69aa

TTLVRVCDATYDKAPVEKEGIHVLDWPFDD), identical to the related mouse and rat sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-PTP4A2 Picoband Antibody - Protein Information

Name PTP4A2

Synonyms PRL2, PTPCAAX2

Function

Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Promotes tumors. Inhibits geranylgeranyl transferase type II activity by blocking the association between RABGGTA and RABGGTB.

Cellular Location

Cell membrane. Early endosome. Cytoplasm.

Tissue Location

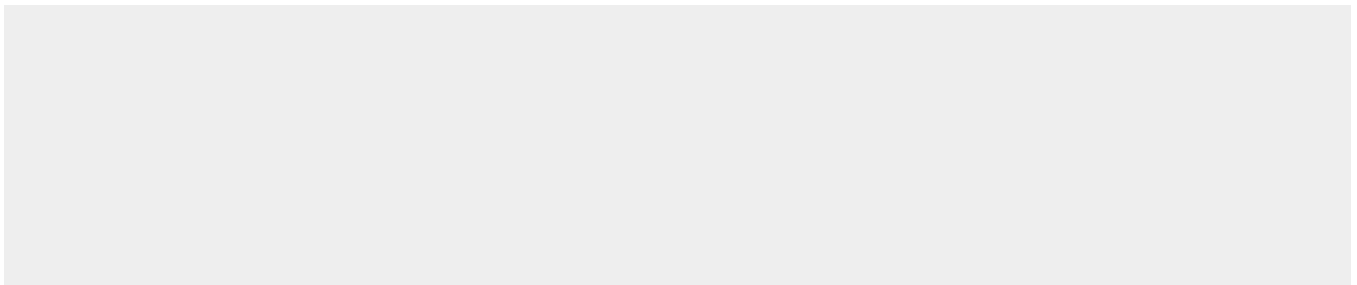
Ubiquitously expressed, with highest levels in skeletal muscle, heart and thymus. Overexpressed in prostate tumor tissue.

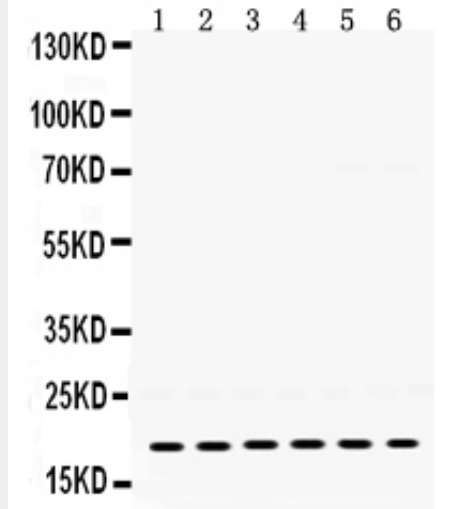
Anti-PTP4A2 Picoband Antibody - Protocols

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

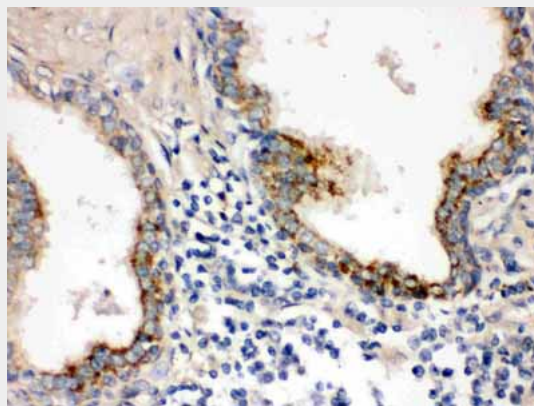
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PTP4A2 Picoband Antibody - Images





Anti- PTP4A2 Picoband antibody, ABO12426, Western blotting All lanes: Anti PTP4A2 (ABO12426) at 0.5ug/ml Lane 1: Rat Skeletal Muscle Tissue Lysate at 50ug Lane 2: Rat Thymus Tissue Lysate at 50ug Lane 3: Mouse Brain Tissue Lysate at 50ug Lane 4: Mouse Thymus Tissue Lysate at 50ug Lane 5: 22RV1 Whole Cell Lysate at 40ug Lane 6: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 19KD Observed bind size: 19KD



Anti- PTP4A2 Picoband antibody, ABO12426, IHC(P) IHC(P): Human Prostatic Cancer Tissue

Anti-PTP4A2 Picoband Antibody - Background

Protein tyrosine phosphatase type IVA 2 is an enzyme that in humans is encoded by the PTP4A2 gene. The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which suggested its role in tumorigenesis. Alternatively spliced transcript variants have been described. Related pseudogenes exist on chromosomes 11, 12 and 17.