

Anti-PTP4A2 Picoband Antibody

Catalog # ABO12426

Product Information

Application	WB, IHC-P
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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/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. .
Source	Eukaryota
Protein Name	Protein tyrosine phosphatase type IVA 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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 r° Constitution, 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.

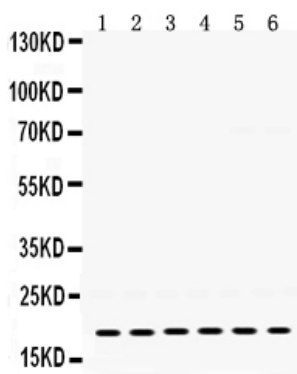
Protein Information

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.

Background

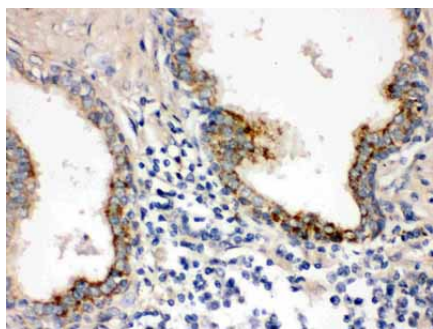
Protein tyrosine phosphatase type IVA 2 is an enzyme that in humans is encoded by the PTP4A2 gene. The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. 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.

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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.