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PTP4A2 Antibody (Center)

affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6838C

Specification

PTP4A2 Antibody (Center) - Product Information

Application	**IF, WB, IHC-P, FC,E**
Primary Accession	Q12974
Other Accession	Q6P9X4, O70274
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**32-59**

PTP4A2 Antibody (Center) - Additional Information

Gene ID 8073

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

Target/Specificity
This PTP4A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-59 amino acids from the Central region of human PTP4A2.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

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
PTP4A2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PTP4A2 Antibody (Center) - 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.

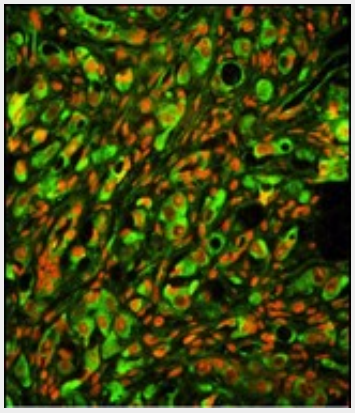
Tissue Location
Ubiquitously expressed, with highest levels in skeletal muscle, heart and thymus. Overexpressed in prostate tumor tissue.

PTP4A2 Antibody (Center) - 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

PTP4A2 Antibody (Center) - Images



Immunofluorescence analysis of PTP4A2 Antibody (Center) with paraffin-embedded human prostate carcinoma tissue . 0.05 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence.Red counterstaining is PI.

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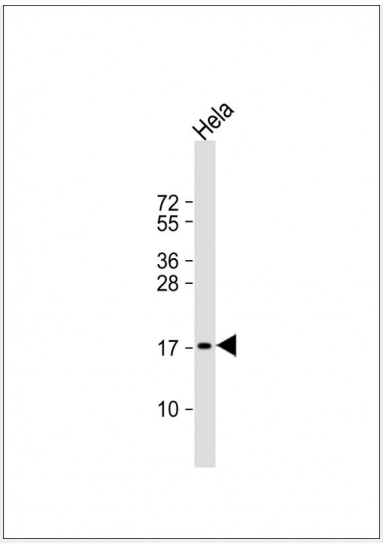
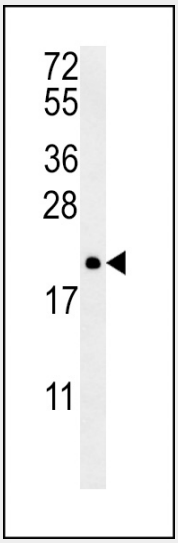
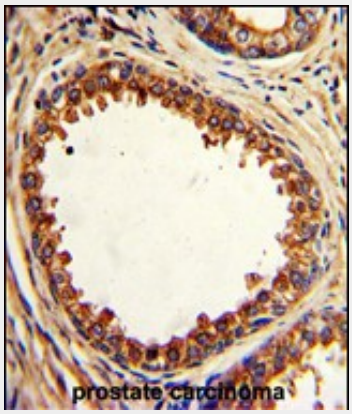


Anti-PTP4A2 Antibody (Center) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

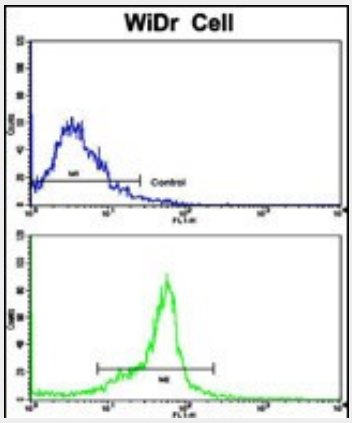


PTP4A2 Antibody (Center) (Cat. #AP6838c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PTP4A2 antibody detected the PTP4A2 protein (arrow).



Formalin-fixed and paraffin-embedded human prostate carcinoma with PTP4A2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data

demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of widr cells using PTP4A2 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PTP4A2 Antibody (Center) - Background

PTP4A2 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.

PTP4A2 Antibody (Center) - References

Ewing,R.M., et.al., Mol. Syst. Biol. 3, 89 (2007)