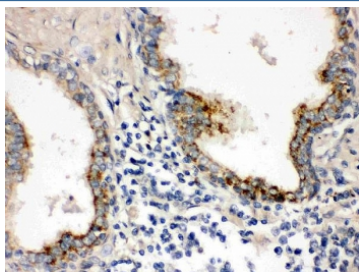


## PTP4A2 Antibody (R32207)

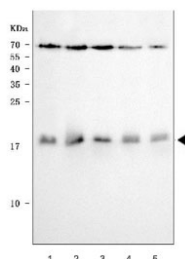
Catalog No.	Formulation	Size
R32207	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

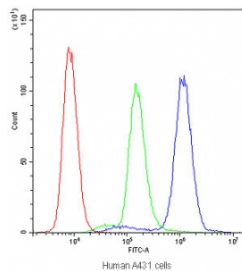
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
<b>UniProt</b>	Q12974
<b>Localization</b>	Cytoplasmic, membrane
<b>Applications</b>	Western Blot : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Flow Cytometry : 1-3ug/10 <sup>6</sup> cells
<b>Limitations</b>	This PTP4A2 antibody is available for research use only.



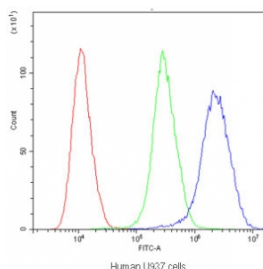
IHC testing of FFPE human prostate cancer with PTP4A2 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



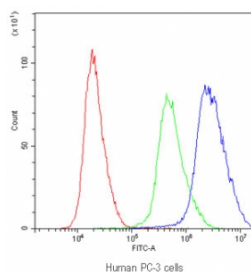
Western blot testing of 1) human MOLT-4, 2) human T-47D, 3) human Daudi, 4) human RT4 and 5) rat PC-12 cell lysate with PTP4A2 antibody. Expected molecular weight ~19 kDa.



Flow cytometry testing of human A431 cells with PTP4A2 antibody at 1ug/10<sup>6</sup> cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PTP4A2 antibody.



Flow cytometry testing of human U937 cells with PTP4A2 antibody at 1ug/10<sup>6</sup> cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PTP4A2 antibody.



Flow cytometry testing of human PC-3 cells with PTP4A2 antibody at 1ug/10<sup>6</sup> cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PTP4A2 antibody.

## Description

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.

## Application Notes

Optimal dilution of the PTP4A2 antibody should be determined by the researcher.

## Immunogen

Amino acids TTLVRVCDATYDKAPVEKEGIHVLDWPFDD of human PTP4A2 were used as the immunogen for the PTP4A2 antibody.

## Storage

After reconstitution, the PTP4A2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

