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## anti-PTP4A2 antibody (N-Term)

2 Images



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Quantity:	100 μg	
Target:	PTP4A2	
Binding Specificity:	AA 40-69, N-Term	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Purpose:	Rabbit IgG polyclonal antibody for Protein tyrosine phosphatase type IVA 2(PTP4A2) detection.  Tested with WB, IHC-P in Human, Mouse, Rat.	
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.	
Sequence:	TTLVRVCDAT YDKAPVEKEG IHVLDWPFDD	
Isotype:	IgG	
Cross-Reactivity (Details):	No cross reactivity with other proteins.	
Characteristics:	Rabbit IgG polyclonal antibody for Protein tyrosine phosphatase type IVA 2(PTP4A2) detection.  Tested with WB, IHC-P in Human, Mouse, Rat.  Gene Name: protein tyrosine phosphatase type IVA, member 2  Protein Name: Protein tyrosine phosphatase type IVA 2	
Purification:	Immunogen affinity purified.	

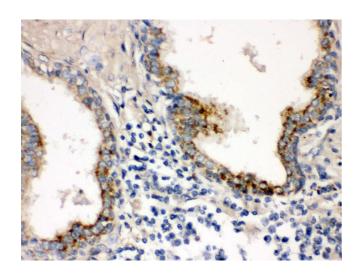
### Target Details

Target:	PTP4A2 Name: PTP4A2 (PTP4A2 Products)		
Alternative Name:			
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 primaril		
	associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTF		
	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.		
	Synonyms: BM 008 antibody EC 3.1.3.48 antibody HH 13 antibody HH13 antibody HH7 2		
	antibody HU PP 1 antibody HUPP 1 antibody HUPP1 antibody OV 1 antibody OV1		
	antibody phosphatase of regenerating liver 2 antibody PRL 2 antibody PRL2 antibody Protein		
	tyrosine phosphatase 4a2 antibody protein tyrosine phosphatase IVA antibody protein tyrosine		
	phosphatase IVA2 antibody Protein tyrosine phosphatase of regenerating liver 2		
	antibody protein tyrosine phosphatase type IVA 2 antibody Protein tyrosine phosphatase type		
	IVA member 2 isoform 1 antibody protein tyrosine phosphatase type IVA, member 2		
	antibody PTP (CAAXII) antibody ptp IV1a antibody ptp IV1b antibody PTP4A		
	antibody PTPCAAX2 antibody TP4A2_HUMAN antibody		
Gene ID:	8073		
UniProt:	Q12974		
Application Details			
Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Mouse, Rat		
	IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling		
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of		
	formalin/paraffin sections.		
	Notes: Tested Species: Species with positive results. Other applications have not been tested.		
	Optimal dilutions should be determined by end users.		

### **Application Details**

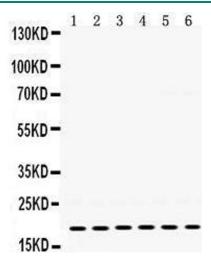
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Handling Advice:	Avoid repeated freezing and thawing.	
Storage:	4 °C/-20 °C	
Storage Comment:	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.	

### Validation report #300029 for Immunohistochemistry (IHC)



#### **Immunohistochemistry**

Image 1. IHC(P): Human Prostatic Cancer Tissue



**Western Blotting** 

Image 2.