

Rabbit anti-Human PTP4A2 Polyclonal Antibody | anti-PTP4A2 antibody

PTP4A2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327395	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PTP4A2; Polyclonal Antibody; PTP4A2 Antibody; BM 008; EC 3.1.3.48; HH 13; HH13; HH7 2; HU PP 1; HUPP 1; HUPP1; OV 1; OV1; phosphatase of regenerating liver 2; PRL 2; PRL2; Protein tyrosine phosphatase 4a2; protein tyrosine phosphatase IVA; protein tyrosine phosphatase IVA2; Protein tyrosine phosphatase of regenerating liver 2; protein tyrosine phosphatase type IVA 2; Protein tyrosine phosphatase type IVA member 2 isoform 1; protein tyrosine phosphatase type IVA; member 2; PTP (CAAXII); ptp IV1a; ptp IV1b; PTP4A; PTPCAAX2; TP4A2_HUMAN; anti-PTP4A2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	PTP4A2 antibody detects endogenous levels of total PTP4A2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	142
Applicable Applications for anti-PTP4A2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PTP4A2
Subcellular Location	Endosome; Plasma Membrane
Tissue Specificity	Ubiquitously expressed, with highest levels in skeletal muscle, heart and thymus. Overexpressed in prostate tumor tissue.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (89%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of PTP4A2 using HepG2 whole cell lysates



IHC (Immunohistochemistry)
AAA327395 at 1/100 staining Human prostate tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PTP4A2 antibody	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. Subunit Structure: In contrast to PTP4A1 and PTP4A3, does not interact with tubulin. Interacts with RABGGTB. Post-translational Modifications: Farnesylated. Farnesylation is required for membrane targeting and for interaction with RABGGTB. Unfarnesylated forms are redirected to the nucleus and cytosol. Similarity: Belongs to the protein-tyrosine phosphatase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	304361762
NCBI GeneID	8073
NCBI Accession #	NP_001182029.1
NCBI GenBank Nucleotide #	NM_001195100.1
UniProt Accession #	Q12974; O00649; Q15197; Q15259; Q15260; Q15261; A8K9I8; B4DM39; D3DPP0; E9PGJ6; R4GN50
Molecular Weight	Observed: 19 kDa Predicted: 20 kDa
NCBI Official Full Name	protein tyrosine phosphatase type IVA 2 isoform 3
NCBI Official Synonym Full Names	protein tyrosine phosphatase type IVA, member 2
NCBI Official Symbol	PTP4A2
NCBI Official Synonym Symbols	HH13; OV-1; PRL2; HH7-2; PRL-2; PTP4A; HU-PP-1; PTPCAAX2; ptp-IV1a; ptp-IV1b
NCBI Protein Information	protein tyrosine phosphatase type IVA 2
UniProt Protein Name	Protein tyrosine phosphatase type IVA 2
UniProt Gene Name	PTP4A2
UniProt Synonym Gene Names	PRL2; PTPCAAX2; PRL-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.