

Rabbit PTP4A3 Polyclonal Antibody | anti-PTP4A3 antibody

PTP4A3 Antibody

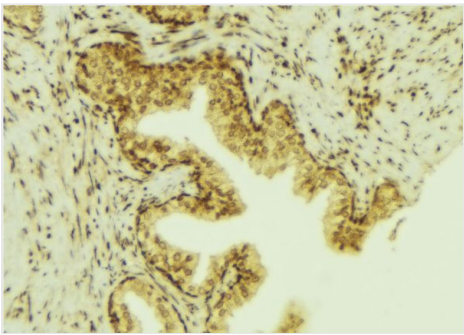
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326511	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

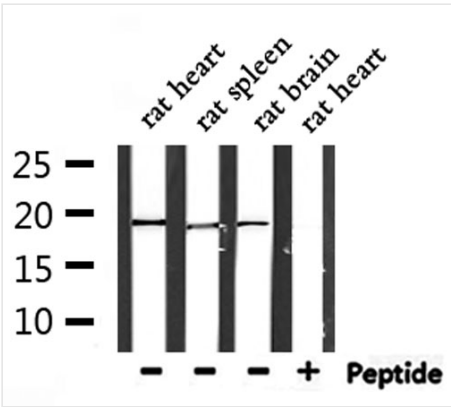
PTP4A3; Polyclonal Antibody; PTP4A3 Antibody; Potentially prenylated protein tyrosine phosphatase; PRL 3; PRL R; PRL-3; PRL-R; PRL3; PRLR; Protein tyrosine phosphatase 4a3; Protein tyrosine phosphatase type IVA 3; Protein-tyrosine phosphatase 4a3; Protein-tyrosine phosphatase of regenerating liver 3; PTP 4A3; TP4A3_HUMAN; anti-PTP4A3 antibody

PRODUCT SPECIFICATIONS

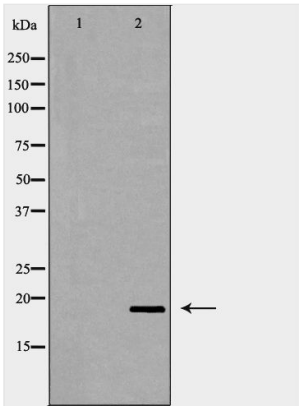
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PTP4A3 antibody detects endogenous levels of total PTP4A3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	148
Applicable Applications for anti-PTP4A3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PTP4A3
Subcellular Location	Cell Membrane. Early Endosome.
Tissue Specificity	Mainly expressed in cardiomyocytes and skeletal muscle; also found in pancreas. Consistently overexpressed in colon cancer metastasis.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (91%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (82%), Dog (82%), Chicken (90%), Xenopus (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326511 at 1/100 staining Mouse colon 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.



WB (Western Blot)
Western blot analysis of extracts from rat heart, rat spleen and rat brain, using PTP4A3 Antibody.



WB (Western Blot)
Western blot analysis of Hepg2 whole cell lysates, using PTP4A3 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PTP4A3 antibody

Description: This gene encodes a member of the protein-tyrosine phosphatase family. Protein tyrosine phosphatases are cell signaling molecules that play regulatory roles in a variety of cellular processes. Studies of this class of protein tyrosine phosphatase in mice demonstrates that they are prenylated in vivo, suggesting their association with cell plasma membrane. The encoded protein may enhance cell proliferation, and overexpression of this gene has been implicated in tumor metastasis. Alternative splicing results in multiple transcript variants.

Function: Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Enhances cell proliferation, cell motility and invasive activity, and promotes cancer metastasis. May be involved in the progression of cardiac hypertrophy by inhibiting intracellular calcium mobilization in response to angiotensin II.

Subunit Structure: Interacts with tubulin.

Post-translational Modifications: Farnesylated. Farnesylation is required for membrane targeting (By similarity).

Similarity: Belongs to the protein-tyrosine phosphatase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14589854
NCBI GeneID	11156
NCBI Accession #	NP_009010.2
NCBI GenBank Nucleotide #	NM_007079.3
UniProt Accession #	O75365; Q8IVN5; Q99849; Q9BTW5

Molecular Weight	Observed: 19 kDa Predicted: 20 kDa
NCBI Official Full Name	protein tyrosine phosphatase type IVA 3 isoform 2
NCBI Official Synonym Full Names	protein tyrosine phosphatase type IVA, member 3
NCBI Official Symbol	PTP4A3
NCBI Official Synonym Symbols	PRL3; PRL-3; PRL-R
NCBI Protein Information	protein tyrosine phosphatase type IVA 3
UniProt Protein Name	Protein tyrosine phosphatase type IVA 3
UniProt Gene Name	PTP4A3
UniProt Synonym Gene Names	PRL3; PRL-3

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ptp4a3-antibody-immunohistochemistry-western-blot-elisa/326511>