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Rabbit Anti-PTP4A2 antibody

SL0644R

Product Name:	PTP4A2
Chinese Name:	肝再生磷酸酯酶2抗体
Alias:	Protein tyrosine phosphatase type IV A protein 2; Protein-tyrosinephosphatase 4a2; Protein-tyrosine phosphatase of regeneratingliver 2; PRL-2; PRL2; PRL 2; TP4A2_HUMAN; 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; 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	19kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PTP4A2:61-167/167
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:	PubMed
Product Detail:	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. [provided by RefSeq, Aug 2010] **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:** In contrast to PTP4A1 and PTP4A3, does not interact with tubulin. Interacts with RABGGTB. **Subcellular Location:** Cell membrane. Early endosome. Cytoplasm. **Tissue Specificity:** Ubiquitously expressed, with highest levels in skeletal muscle, heart and thymus. Overexpressed in prostate tumor tissue. **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. Contains 1 tyrosine-protein phosphatase domain. **SWISS:** Q12974 **Gene ID:** 8073 **Database links:** Entrez Gene: 8073 Human

	Entrez Gene: 19244 Mouse Entrez Gene: 85237 Rat Omim: 601584 Human SwissProt: Q12974 Human SwissProt: O70274 Mouse SwissProt: Q6P9X4 Rat Unigene: 470477 Human Unigene: 193688 Mouse Unigene: 167750 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.