



TP4A3 Polyclonal Antibody

Catalog No	YP-Ab-07209
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	PTP4A3 PRL3
Immunogen	Synthesized peptide derived from human protein . at AA range: 40-120
Specificity	TP4A3 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PRL-3;PRL-R;PRL3;pPtp4a3;TP4A3_HUMAN;PTP4A3;Protein-tyrosine phosphatase 4a3;Protein-tyrosine phosphatase of regenerating liver 3 (PRL-3); 3.1.3.48;TP4A3_MOUSE;TP4A1_RAT;Ptp4a1;Protein-tyrosine phosphatase 4a1;Protein-tyrosine phosphatase of regenerating liver 1 (PRL-1);Pr1;TP4A3; PTP4A3 PRL3;Protein tyrosine phosphatase type IVA 3 (EC 3.1.3.48) (PRL-R) (Protein-tyrosine phosphatase 4a3) (Protein-tyrosine phosphatase of regenerating liver 3) (PRL-3)
Observed Band	19kD
Calculated Molecular Weight	19kD
Cell Pathway	Cell membrane . Early endosome .
Tissue Specificity	Mainly expressed in cardiomyocytes and skeletal muscle; also found in pancreas. Consistently overexpressed in colon cancer metastasis.
Function	alternative products:Additional isoforms seem to exist,catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate., disease:Significantly overexpressed in liver metastasis of colorectal cancer., enzyme regulation:Inhibited by sodium orthovanadate and peroxovanadium compounds, and by pentamidine.,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., PTM:Farnesylated. Farnesylation is required for membrane targeting., similarity:Belongs to the protein-tyrosine phosphatase family.,similarity:Contains 1 tyrosine-protein phosphatase domain.,subunit:Interacts with tubulin.,tissue specific

Background

protein tyrosine phosphatase type IVA, member 3(PTP4A3) Homo sapiens 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. [provided by RefSeq, Jul 2013],

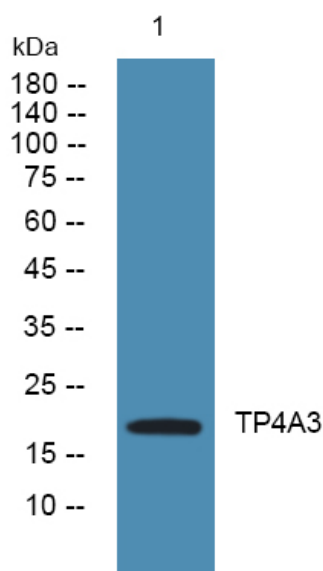
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from HCT116 cells, primary antibody was diluted at 1:1000, 4° over night