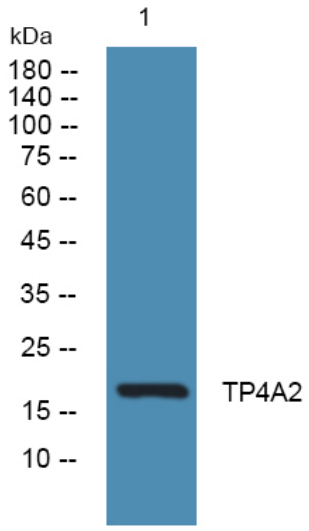
TP4A2 Polyclonal Antibody

Catalog No	YP-Ab-06968
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	PTP4A2 PRL2 PTPCAAX2 BM-008
Protein Name	Protein tyrosine phosphatase type IVA 2 (EC 3.1.3.48) (HU-PP-1) (OV-1) (PTP(CAAXII)) (Protein-tyrosine phosphatase 4a2) (Protein-tyrosine phosphatase of regenerating liver 2) (PRL-2)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	TP4A2 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	
Observed Band	18kD
Cell Pathway	Cell membrane. Early endosome. Cytoplasm.
Tissue Specificity	Ubiquitously expressed, with highest levels in skeletal muscle, heart and thymus. Overexpressed in prostate tumor tissue.
Function	catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,enzyme regulation:Inhibited by sodium orthovanadate and pentamidine.,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.,miscellaneous:A processed pseudogene with 96% sequence identity was found in the BRCA1 (113705) region of 17q21.,PTM: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.,similarity:Contains 1 tyrosine-protein phosphatase domain.,subunit:In contrast to PTP4A1 and PTP4A3, does not interact with tubulin. Interacts with RABGGTB.,tissue specifici

Background	protein tyrosine phosphatase type IVA, member 2(PTP4A2) Homo sapiens 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],
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 U2OS cells, primary antibody was diluted at 1:1000, 4°over night