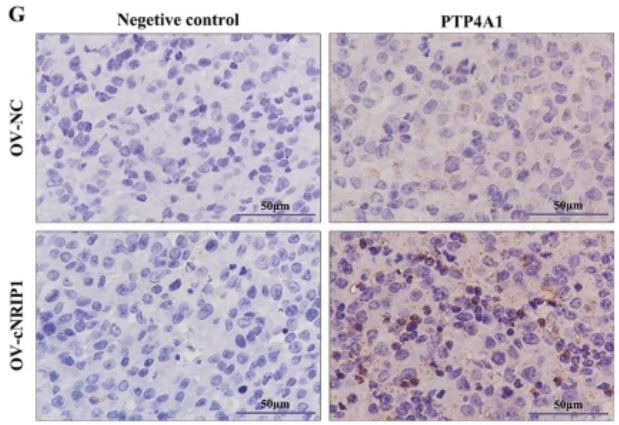
TP4A1 Polyclonal Antibody

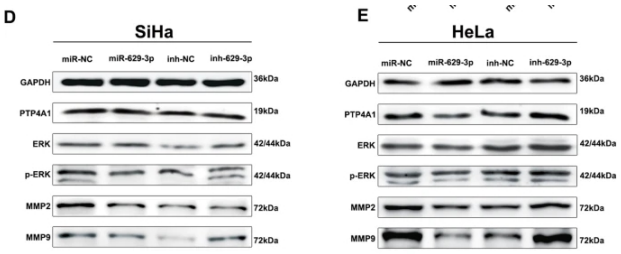
Catalog No	YP-Ab-06967
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	PTP4A1 PRL1 PTPCAAX1
Protein Name	Protein tyrosine phosphatase type IVA 1 (EC 3.1.3.48) (PTP(CAAXI)) (Protein-tyrosine phosphatase 4a1) (Protein-tyrosine phosphatase of regenerating liver 1) (PRL-1)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	TP4A1 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	19kD
Cell Pathway	Cell membrane ; Lipid-anchor . Early endosome . Endoplasmic reticulum . Cytoplasm . Cytoplasm, cytoskeleton, spindle . Nucleus . And mitotic spindle. .
Tissue Specificity	Expressed in bone marrow, lymph nodes, T lymphocytes, spleen, thymus and tonsil. Overexpressed in tumor cell lines.
Function	catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,developmental stage:Expressed in fetal liver.,enzyme regulation:Inhibited by sodium orthovanadate and pentamidine.,function:Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. May play a role in the development and maintenance of differentiating epithelial tissues. Enhances cell proliferation, cell motility and invasive activity, and promotes cancer metastasis.,induction:Strongly down-regulated upon tetrodotoxin treatment.,PTM:Farnesylated. Farnesylation is required for membrane targeting. Unfarnesylated forms are shifted into the nucleus.,similarity:Belongs to the protein-tyrosine phosphatase family.,similarity:Contains 1 tyrosine-protein phosphatase domain.,subcellular location:And mitotic spindle.,subunit:Homotrimer. Interacts with ATF5 (By similarity). Inte

Background	protein tyrosine phosphatase type IVA, member 1(PTP4A1) Homo sapiens This gene encodes a member of a small class of prenylated protein tyrosine phosphatases (PTPs), which contain a PTP domain and a characteristic C-terminal prenylation motif. The encoded protein is a cell signaling molecule that plays regulatory roles in a variety of cellular processes, including cell proliferation and migration. The protein may also be involved in cancer development and metastasis. This tyrosine phosphatase is a nuclear protein, but may associate with plasma membrane by means of its prenylation motif. Pseudogenes related to this gene are located on chromosomes 1, 2, 5, 7, 11 and X. [provided by RefSeq, Jun 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



Li, X., Ma, N., Zhang, Y. et al. Circular RNA circNRIP1 promotes migration and invasion in cervical cancer by sponging miR-629-3p and regulating the PTP4A1/ERK1/2 pathway. Cell Death Dis 11, 399 (2020).



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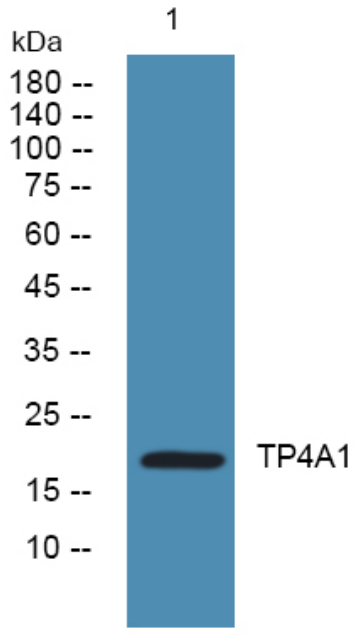

Western blot analysis of lysates from K562 cells, primary antibody was diluted at 1:1000, 4°over night