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Rabbit Anti-PCPTP1 antibody

SL11924R

Product Name	PCPTP1
Chinese Name	蛋白酪氨酸磷酸酶受体 PCPTP1 抗体
Alias	Ch-1PTPase; Ch1 PTPase; DKFZp781C1038; EC PTP; ECPTP; NC PTPCOM1; NC-PTPCOM tyrosine phosphatase Cr1PTPase precursor; Protein tyrosine phosphatase NC PTPCOM1; Protei phosphatase PCPTP1; Protein tyrosine phosphatase receptor type R; Protein-tyrosine phosphatase SL; PTPBR7; PTPRQ; PTPRR; PTPRR_HUMAN; PTPSL; R-PTP-R; Receptor type tyrosine pr phosphatase R; Receptor-type tyrosine-protein phosphatase R.
Research Area	Tumour Cell biology Cyclin Cell differentiation
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	72kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PCPTP1: 165-270/657 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d

applications.

PubMed PubMed

The protein tyrosine phosphatase (PTP) family of proteins are signaling molecules that regulate
as cell growth, cell differentiation, oncogenic transformation and the mitotic cycle. PCPTP1, als
PTPRR (Receptor-type tyrosine-protein phosphatase R), ECPTP, PTPBR7 or PTPRQ, is a 657 a
protein that functions to sequester inactive mitogen-activated protein kinases (MAPKs) to the cy
Expressed primarily in the brain with weaker expression in other parts of the body, PCPTP1 is a
molecule that is able to dephosphorylate MAPKs, thereby rendering them inactive. Three isofor
exist and are designated alpha, beta and gamma. The alpha form is localized to the cell membrane
and gamma forms are localized to the perinuclear areas within the cytoplasm.

Function:
Sequesters mitogen-activated protein kinases (MAPKs) such as MAPK1, MAPK3 and MAPK14
cytoplasm in an inactive form. The MAPKs bind to a dephosphorylated kinase interacting motif, p
of which by the protein kinase A complex releases the MAPKs for activation and translocation i

Subunit:
Interacts with MAPKs

Subcellular Location:
Cell membrane and Cytoplasm > perinuclear region. Locates to the perinuclear areas within the

Product Detail

Tissue Specificity:
Expressed in brain, placenta, small intestine, stomach, uterus and weakly in the prostate. Isoform
observed only in the brain. Isoform gamma is expressed in brain, placenta and uterus. Isoform de
in brain, kidney, placenta, prostate, small intestine and uterus.

Similarity:
Belongs to the protein-tyrosine phosphatase family. Receptor class 7 subfamily.
Contains 1 tyrosine-protein phosphatase domain.

SWISS:
Q15256

Gene ID:
5801

Database links:

Entrez Gene: 536337 Cow

Entrez Gene: 5801 Human

Entrez Gene: 19279 Mouse

Entrez Gene: 94202 Rat

Entrez Gene: 100125100 Xenopus tropicalis

Omim: 602853 Human

SwissProt: Q15256 Human

SwissProt: Q62132 Mouse