PTPRE Monoclonal Antibody

Catalog No	YP-mAb-06066
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	PTPRE
Protein Name	Receptor-type tyrosine-protein phosphatase epsilon (Protein-tyrosine phosphatase epsilon) (R-PTP-epsilon) (EC 3.1.3.48)
Immunogen	Synthesized peptide derived from human protein . at AA range: 190-270
Specificity	PTPRE Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	77kD
Cell Pathway	[Isoform 1]: Cell membrane; Single-pass type I membrane protein.; [Isoform 2]: Cytoplasm. Predominantly cytoplasmic. A small fraction is also associated with nucleus and membrane. Insulin induces translocation to the membrane (By similarity). .; [Isoform 3]: Cytoplasm.
Tissue Specificity	Expressed in giant cell tumor (osteoclastoma rich in multinucleated osteoclastic cells).
Function	catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,similarity:Belongs to the protein-tyrosine phosphatase family. Receptor class 4 subfamily.,similarity:Contains 1 tyrosine-protein phosphatase domain.,similarity:Contains 2 tyrosine-protein phosphatase domains.,
Background	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Several alternatively spliced transcript variants of this gene have been reported, at least two of which encode a receptor-type PTP that possesses a short extracellular domain, a single transmembrane region, and two tandem intracytoplasmic catalytic domains; another one encodes a PTP that contains a distinct hydrophilic N-terminus, and

	thus represents a nonreceptor-type isoform of this PTP. Studies of the similar gene in mice suggested the regulatory roles of this PTP in RAS related signal transduction pathways, cytokine-induced SATA signaling, as well as the activation of voltage-gated K+ channels. [provided by R
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.

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