PTPα Monoclonal Antibody

Catalog No	YP-mAb-14967
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PTPRA
Immunogen	Synthesized peptide derived from PTPα . at AA range: 730-810
Specificity	PTPα Monoclonal Antibody detects endogenous levels of PTPα protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA 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	HEPTP;HLPR;HPTP alpha;HPTPA;HPTPalpha;Leukocyte common antigen related peptide;LRP;Protein tyrosine phosphatase alpha;Protein tyrosine phosphatase receptor type A;Protein tyrosine phosphatase receptor type alpha polypeptide;Protein tyrosine phosphate;Protein-tyrosine phosphatase alpha; PTPA;PTPalpha;PTPase alpha;PTPLCA related phosphatase;Ptpra; PTPRA_HUMAN;PTPRL 2;PTPRL2;PTRA;R PTP alpha;R-PTP-alpha;Receptor type tyrosine protein phosphatase alpha;Receptor-type tyrosine-protein phosphatase alpha;RPTPA;Tyrosine phosphatase alpha;PTPα
Observed Band	90kD
Calculated Molecular Weight	90kD
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Cell junction, focal adhesion . Localizes to focal adhesion sites following integrin engagement. .
Tissue Specificity	Brain,Epithelium,Kidney,Lymph node,Skin,
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 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. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. [provided by RefSeq, Jul 2008],
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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