



PTPRE Polyclonal Antibody

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| Catalog No | BYab-06066 |
| Isotype | IgG |
| Reactivity | Human;Rat;Mouse |
| Applications | WB;ELISA |
| 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 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 | 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 |

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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.

Products Images