

PTP1B Rabbit Polyclonal Antibody

Catalog #: EAB13562

| Host/Isotype | Clonality | Applications | MW (kDa) | Reactivity |
|--------------|------------|---------------|----------|-------------------|
| Rabbit IgG | Polyclonal | WB, IHC-P, IF | 49 | Human, Mouse, Rat |

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|--------------------------------------|------------|
| WB(Western Blotting) | 1:500-2000 |
| IHC-P(Immunohistochemistry-Paraffin) | 1:50-300 |
| IF(Immunofluorescence) | 1:50-300 |

Product Information

| | |
|----------------|---|
| Conjugate | Unconjugate |
| Specificity | PTP1B Rabbit Polyclonal Antibody detects endogenous levels of PTP1B protein. |
| Purification | Affinity purification |
| Concentration | 1mg/ml |
| Format | Liquid |
| Formulation | In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol. |
| Shipping | Gel Pack |
| Storage | Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks. |
| UniProt ID | P18031 |
| Entrez-Gene ID | 5770 |

Product Description

PTP1B (also designated PTPN1) is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. 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 has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene.

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