

## Product datasheet for **AP15219PU-N**

### **PTP1B (PTPN1) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	WB
<b>Recommended Dilution:</b>	ELISA: 1/1,000. Western Blot: 1/50 - 1/100.
<b>Reactivity:</b>	Human, Mouse
<b>Host:</b>	Rabbit
<b>Isotype:</b>	Ig
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a recombinant protein encoding aa 1~321 of human PTP1B.
<b>Specificity:</b>	This antibody reacts to PTP1B.
<b>Formulation:</b>	PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified Ig
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	protein tyrosine phosphatase, non-receptor type 1
<b>Database Link:</b>	<a href="#">Entrez Gene 5770 Human P18031</a>



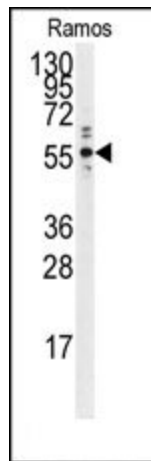
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**Background:**

PTP1B 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.

**Synonyms:**

Protein Tyrosin Phosphatase , PTP1B, PTP-1B

**Product images:**

Western blot analysis of anti-PTP1B Antibody in Ramos cell line lysates (35ug/lane). PTP1B (arrow) was detected using the purified Pab.