



Datasheet for ABIN1882122  
**anti-PTPN1 antibody (N-Term)**



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1 Image

6 Publications

### Overview

Quantity:	400 µL
Target:	PTPN1
Binding Specificity:	AA 23-53, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN1 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	This PTP1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-53 amino acids from the N-terminal region of human PTP1B.
Clone:	RB7011
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

### Target Details

Target:	PTPN1
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## Target Details

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Alternative Name: [PTP1B \(PTPN1 Products\)](#)

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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.

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Molecular Weight: 49967

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NCBI Accession: [NP\\_001265547](#), [NP\\_002818](#)

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UniProt: [P18031](#)

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Pathways: [TLR Signaling](#), [Response to Growth Hormone Stimulus](#), [ER-Nucleus Signaling](#), [Platelet-derived growth Factor Receptor Signaling](#)

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## Application Details

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Application Notes: WB: 1:1000

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: 4 °C, -20 °C

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Expiry Date: 6 months

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## Publications

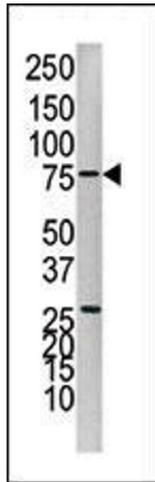
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Product cited in: Mishra, Chandravanshi, Trigun, Krishnamurthy: "Ambroxol modulates 6-Hydroxydopamine-induced temporal reduction in Glucocerebrosidase (GCase) enzymatic activity and Parkinson's disease symptoms." in: **Biochemical pharmacology**, Vol. 155, pp. 479-493, (2019) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

## Images

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### Western Blotting

**Image 1.** Western blot analysis of anti-PTP1B Pab (ABIN1882122 and ABIN2842257) in Jurkat cell line lysate. PTP1B (arrow) was detected using the purified Pab.