

Datasheet for ABIN3032393

anti-PTPN1 antibody[Go to Product page](#)**2** Images

Overview

Quantity:	0.4 mL
Target:	PTPN1
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This PTP1B antibody was produced from rabbits immunized with a recombinant protein encoding aa 1~321 of human PTP1B.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	PTPN1
Alternative Name:	PTP1B (PTPN1 Products)
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.

Target Details

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.

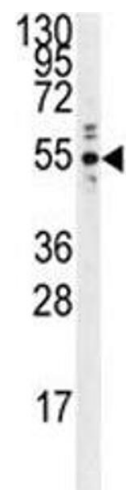
UniProt:	P18031
Pathways:	TLR Signaling , Response to Growth Hormone Stimulus , ER-Nucleus Signaling , Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Titration of the PTP1B antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000
Restrictions:	For Research Use only

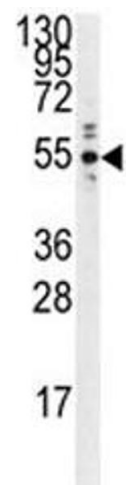
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the PTP1B antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Western blot analysis of PTP1B antibody and Ramos lysate. Predicted molecular weight ~50 kDa



Western Blotting

Image 2. Western blot analysis of PTP1B antibody and Ramos lysate. Predicted molecular weight ~50 kDa