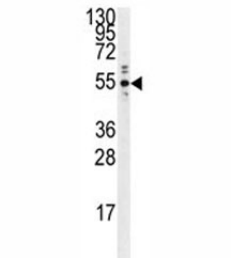
PTP1B Antibody (F51118)

Catalog No.	Formulation	Size
F51118-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F51118-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P18031
Applications	Western blot: 1:1000
Limitations	This PTP1B antibody is available for research use only.



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

Description

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 phosphotryosine 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.

Application Notes

Titration of the PTP1B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This PTP1B antibody was produced from rabbits immunized with a recombinant protein encoding aa 1~321 of human PTP1B.

Storage

Aliquot the PTP1B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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