Recombinant PTP1B Monoclonal Antibody

catalog number: AN301798L

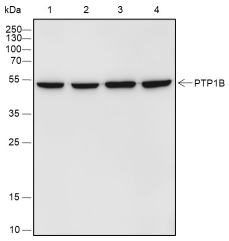
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human PTP1B fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A510
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:2000
IHC	1:200-1:1000
IF	1:50

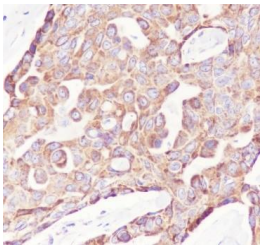
Data



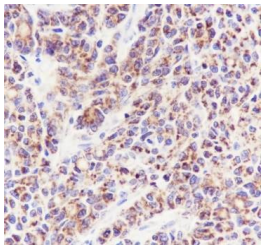
Western Blot with PTP1B Monoclonal Antibody at dilution of 1:2000. Lane 1: HeLa, Lane 2: Jurkat, Lane 3: RAW 264.7, Lane 4: PC-12

Observed-MW:50 kDa

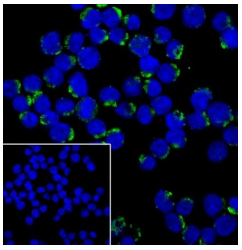
Calculated-MW:50 kDa



Immunohistochemistry of paraffin-embedded Human breast cancer using PTP1B Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human colon cancer using PTP1B Monoclonal Antibody at dilution of 1:1000.



Immunofluorescent analysis of (100% methanol) fixed Jurkat cells using anti-PTP1B Monoclonal Antibody at dilution of 1:50.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Toll-free: 1-888-852-8623
Web: www.elabscience.com
Tel: 1-832-243-6086
Email: techsupport@elabscience.com
Fax: 1-832-243-6017

PTP1B is the founding member of the protein tyrosine phosphatase (PTP) family and 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. PTP1B has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotryosine residues of insulin receptor kinase. PTP1B 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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