

Anti-PTP1B Antibody (5V912)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5V912
Purification:	Protein A

Applications

Verified Activity:	Immunofluorescence staining of human PTPN1 in A549 and Hela cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Rabbit anti-human PTPN1 monoclonal antibody (1:60) at 4°C overnight. Then A549 cells were stained with the Alexa Fluor® 549-conjugated Goat Anti-rabbit IgG secondary antibody (figure A, captured by fluorescence microscope); Hela cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (figure B, captured by laser confocal scanning microscope), counterstained with DAPI (blue). Positive staining was localized to cytoplasm.
Application:	ELISA, ICC/IF
Recommended	ELISA: 1:5000-1:10000; ICC-IF: 1:20-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human PTP1B / PTPN1 protein (TMPY-04125)
Antigen Species:	Human
Synonyms:	PTPN1;PTP1B;protein tyrosine phosphatase, non-receptor type 1
Biology Area:	Phosphatases and Regulators

Research Background

PTP1B, also known as PTPN1, belongs to the protein-tyrosine phosphatase (PTP) family. 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 contains 1 tyrosine-protein phosphatase domain and is expressed in many tissues. PTP1B is localized to the cytoplasmic face of the endoplasmic reticulum. PTP1B was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of PTP1B in cell growth control, and cell response to IFN stimulation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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