

Anti-Human PTP1B DyLight® 488 conjugated PTPN1 Antibody

Catalog Number: A00613-Dyl488

About PTPN1

Tyrosine-protein phosphatase non-receptor type 1, also known as protein-tyrosine phosphatase 1B (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.

Overview

Product Name	Anti-Human PTP1B DyLight® 488 conjugated PTPN1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Human PTP1B DyLight® 488 conjugated PTPN1 Antibody catalog # A00613-Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Human.
Conjugate	DyLight®488
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P18031

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PTP1B, different from the related mouse sequence by three amino acids, and from the related rat sequence by two amino acids.
Predicted Reactive Species	Bovine
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry, 1-3ug/1x10⁶ cells</p>

Anti-Human PTP1B DyLight® 488 conjugated PTPN1 Antibody (A00613-Dyl488) Images



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