

Anti-PTP1B Antibody (5M68)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5M68
Purification:	Protein A

Applications

1. Anti-PTPN1 rabbit monoclonal antibody at 1:500 dilution.
 - Lane A: Hela whole cell Lysate.
 - Lane B: MCF7 whole cell Lysate.
 - Lane C: A549 whole cell Lysate.
 - Lane D: Jurkat whole cell lysate.
 - Lysates/proteins at 30 µg per lane.
 - Secondary
 - Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.
 - Developed using the Odyssey technique.
 - Performed under reducing conditions.
 - Predicted band size:50 kDa.
 - Observed band size:53 kDa.
2. PTPN1 was immunoprecipitated using:
 - Lane A:0.5 mg A549 Whole Cell Lysate.
 - 2 µL anti-PTPN1 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.
 - Primary antibody:
 - Anti-PTPN1 rabbit monoclonal antibody, at 1:330 dilution.
 - Secondary antibody:
 - Clean-Blot[®] IP Detection Reagent (HRP) at 1:1000 dilution.
 - Developed using the DAB staining technique.
 - Performed under reducing conditions.
 - Predicted band size: 50 kDa.
 - Observed band size: 50 kDa.
3. Anti-PTPN1 rabbit monoclonal antibody at 1:500 dilution.
 - Lane A: PTPN1 konckout Hela Cell Lysate.
 - Lane B: Hela Whole Cell lysate.
 - Lysates/proteins at 30 µg per lane.
 - Secondary
 - Goat Anti-Rabbit IgG H&L /HRP at 1/10000 dilution.
 - Developed using the ECL technique.
 - Performed under reducing conditions.
 - Predicted band size:50 kDa.
 - Observed band size:53 kDa(Validation Experiment)

Verified Activity:

A DRUG SCREENING EXPERT

Application: ELISA,IP,WB

Recommended WB: 1:500-1:2000; ELISA: 1:5000-1:10000; IP: 1-4 µL/mg of lysate

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: protein tyrosine phosphatase, non-receptor type 1;PTP1B;PTPN1

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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