

PTP1B Recombinant Rabbit Monoclonal Antibody (226)

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	226
Conjugate	Unconjugated
Immunogen	Recombinant Human PTP1B/PTPN1 protein (Glu2-Asn321)
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2785363

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunocytochemistry (ICC/IF)	1:250	-
ELISA (ELISA)	1:5,000-1:10,000	-
Immunoprecipitation (IP)	1-4 µL/mg of lysate	-

Product Specific Information

This product is preservative free. It is recommended to add sodium azide to avoid contamination (final concentration 0.05% -0.1%).

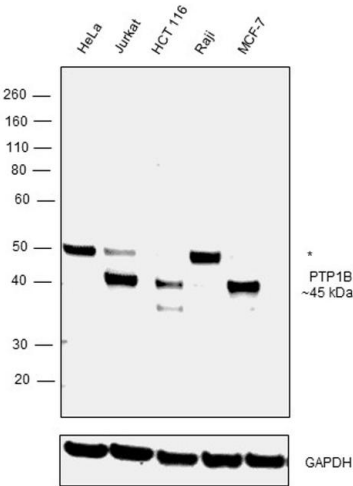
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

This antibody has specificity for Human PTP1B/PTPN1.

Product Images For PTP1B Recombinant Rabbit Monoclonal Antibody (226)

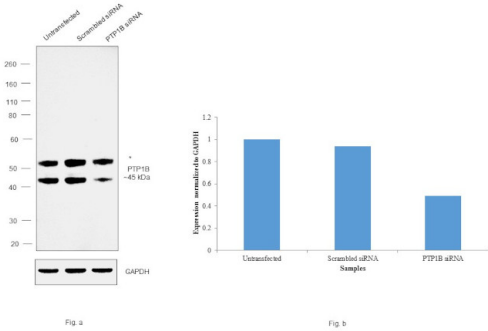
PTP1B Antibody (MA5-29512) in WB

Western blot was performed using Anti-PTP1B Monoclonal Antibody (Product # MA5-29512). An ~45kDa band corresponding to PTP1B was observed across the cell lines tested. An uncharacterized band (*) of ~50 kDa was also observed in HeLa, Jurkat and Raji cell lines. Membrane enriched extracts (30 µg) of HeLa (Lane 1), Jurkat (Lane 2), HCT 116 (Lane 3), Raji (Lane 4) and MCF-7 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



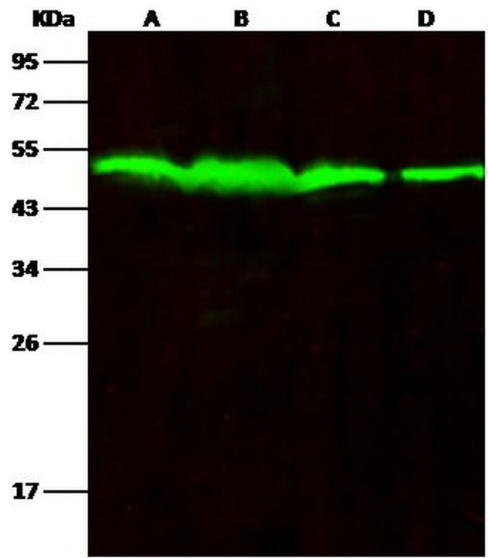
PTP1B Antibody (MA5-29512)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF-7 cells were transfected with PTP1B siRNA and reduction of signal was observed in Western Blot using PTP1B Monoclonal Antibody (Product # MA5-29512). {KD}



PTP1B Antibody (MA5-29512) in WB

Western Blot using PTP1B Recombinant Rabbit Monoclonal Antibody (226) (Product # MA5-29512) 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 g per lane. Secondary antibody: Goat Anti-Rabbit IgG H&L (DyLight™ 800) at 1:10,000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 50 kDa. Observed band size: 53 kDa.



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