abcam

Product datasheet

HRP Anti-PTP1B antibody [EP1841Y] ab207635

KO VALIDATED Recombinant RabMAb

2 Images

Overview

Product name	HRP Anti-PTP1B antibody [EP1841Y]
Description	HRP Rabbit monoclonal [EP1841Y] to PTP1B
Host species	Rabbit
Conjugation	HRP
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HepG2, Jurkat and wildtype HAP1 whole cell lysates.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EP1841Y
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab207635 in the following tested applications.

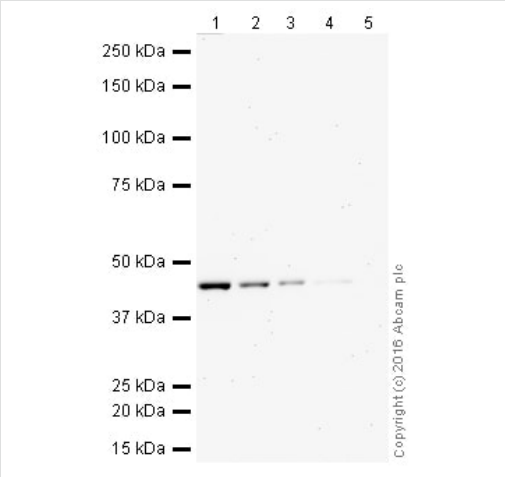
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 45 kDa (predicted molecular weight: 50 kDa).

Target

Function	May play an important role in CKII- and p60c-src-induced signal transduction cascades.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class 1 subfamily. Contains 1 tyrosine-protein phosphatase domain.
Post-translational modifications	Oxidized on Cys-215; the Cys-SOH formed in response to redox signaling reacts with the alpha-amido of the following residue to form a 4-amino-3-isothiazolidinone serine cross-link, triggering a conformational change that inhibits substrate binding and activity. The active site can be restored by reduction.
Cellular localization	Endoplasmic reticulum membrane.

Images



Western blot - HRP Anti-PTP1B antibody [EP1841Y] (ab207635)

All lanes : HRP Anti-PTP1B antibody [EP1841Y] (ab207635) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate at 10 µg
Lane 2 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate at 10 µg
Lane 3 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate at 10 µg
Lane 4 : Wild-type HAP1 cell lysate at 20 µg
Lane 5 : PTPB1 knockout HAP1 cell lysate at 20 µg

Developed using the ECL technique.

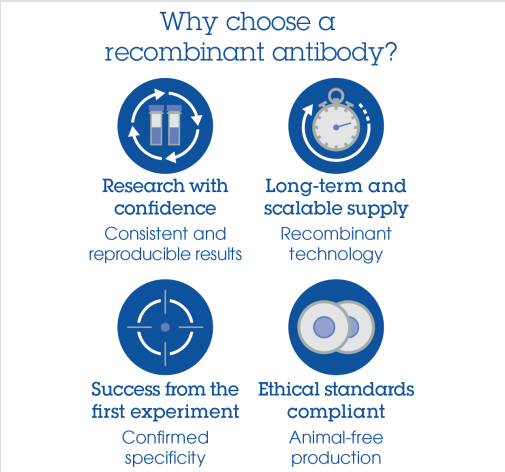
Performed under reducing conditions.

Predicted band size: 50 kDa
Observed band size: 45 kDa

Exposure time: 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being

transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab207635 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.



HRP Anti-PTP1B antibody [EP1841Y] (ab207635)

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