abcam

Product datasheet

Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free ab240079

KO VALIDATED Recombinant RabMAb

6 Images

Overview

Product name	Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR9048(B)] to PTBP1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, Flow Cyt (Intra), ICC/IF, WB **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa and HAP1 cell lysates. Flow Cyt (intra): A549 cells. IHC-P: Human breast carcinoma tissue. ICC: A549 cells.
General notes	ab240079 is the carrier-free version of **ab133734**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9048(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240079 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 57 kDa.

Application notes Is unsuitable for IP.

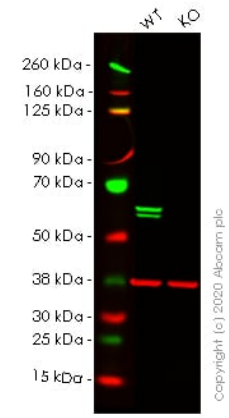
Target

Function Plays a role in pre-mRNA splicing and in the regulation of alternative splicing events. Binds to the polypyrimidine tract of introns. May promote RNA looping when bound to two separate polypyrimidine tracts in the same pre-mRNA. May promote the binding of U2 snRNP to pre-mRNA. Cooperates with RAVER1 to modulate switching between mutually exclusive exons during maturation of the TPM1 pre-mRNA.

Sequence similarities Contains 4 RRM (RNA recognition motif) domains.

Cellular localization Nucleus.

Images



Western blot - Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free (ab240079)

All lanes : Anti-PTBP1 antibody [EPR9048(B)] (**ab133734**) at 1/10000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : PTBP1 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

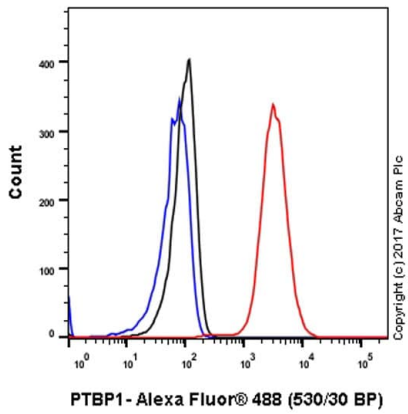
Performed under reducing conditions.

Predicted band size: 57 kDa
Observed band size: 57 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab133734**).

Lanes 1- 2: Merged signal (red and green). Green - **ab133734** observed at 57 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

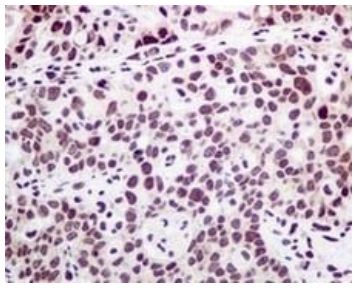
ab133734 was shown to react with PTBP1 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line **ab265155** (knockout cell lysate **ab257614**) was used. Wild-type HeLa and PTBP1 knockout HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. **ab133734** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 10000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free (ab240079)

Intracellular Flow Cytometry analysis of A549 (Human lung carcinoma epithelial cell) cells labeling PTBP1 (red) with purified **ab133734** at a 1/2000 dilution (1ug/mL). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) (**ab172730**). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133734**).

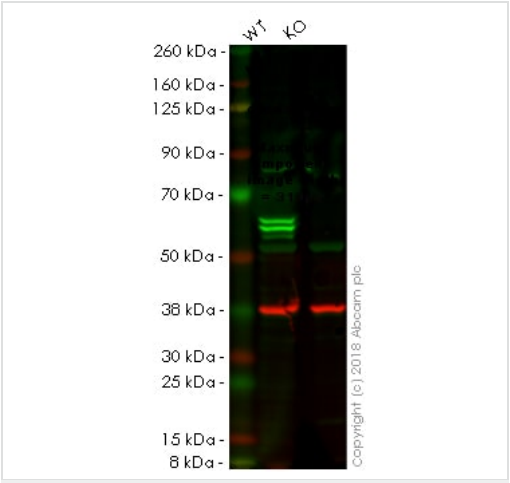


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free (ab240079)

Immunohistochemical analysis of PTBP1 in paraffin embedded Human breast carcinoma tissue stained with **ab133734** at a 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133734**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free (ab240079)

All lanes : Anti-PTBP1 antibody [EPR9048(B)] (**ab133734**) at 1/10000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : PTBP1 knockout HAP1 whole cell lysate

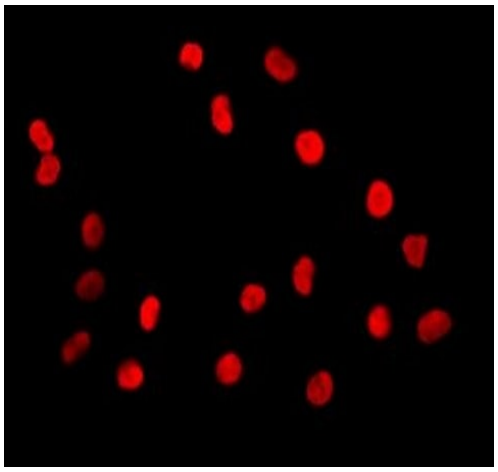
Lysates/proteins at 20 µg per lane.

Predicted band size: 57 kDa

Lanes 1 - 2: Merged signal (red and green). Green - **ab133734** observed at 57 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab133734 was shown to recognize PTBP1 in wild-type HAP1 cells as signal was lost at the expected MW in PTBP1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and PTBP1 knockout samples were subjected to SDS-PAGE. Ab133734 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/10000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133734**).



Immunocytochemistry/ Immunofluorescence - Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free (ab240079)

Immunofluorescent staining of PTBP1 in A549 cells, using **ab133734** at a 1/250 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133734**).

Anti-PTBP1 antibody [EPR9048(B)] - BSA and Azide free (ab240079)

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