abcam

Product datasheet

Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] ab200835

Recombinant RabMAb

7 Images

Overview

Product name	Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)]
Description	Rabbit monoclonal [EPR14859(2)] to PCBP2/hnRNP E2
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB, ICC/IF, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human PCBP2/hnRNP E2 aa 250-350. The exact sequence is proprietary. Database link: Q15366
Positive control	WB: HeLa, Jurkat, K562, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Mouse brain, Mouse heart, Rat heart and Rat spleen lysates. ICC/IF: HeLa cells. Flow Cyt: Jurkat cells. IP: Jurkat whole cell lysate.
General notes	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR14859(2)
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab200835** in the following tested applications.

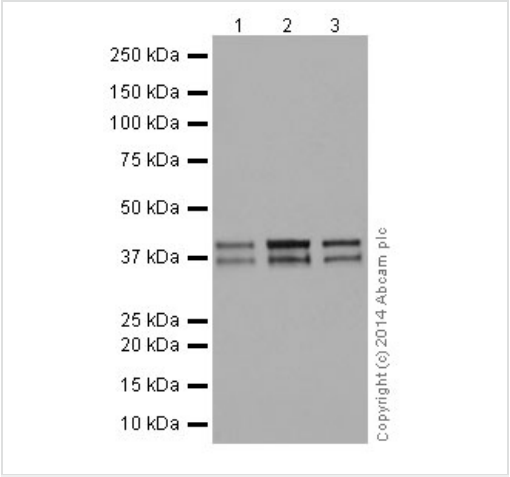
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/80.
WB		1/1000. Detects a band of approximately 35, 39 kDa (predicted molecular weight: 34-39 kDa).
ICC/IF		1/500.
Flow Cyt		1/250. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function	Single-stranded nucleic acid binding protein that binds preferentially to oligo dC. Major cellular poly(rC)-binding protein. Binds also poly(rU). Negatively regulates cellular antiviral responses mediated by MAVS signaling. It acts as an adapter between MAVS and the E3 ubiquitin ligase ITCH, therefore triggering MAVS ubiquitinationa and degradation.
Tissue specificity	Detected in all tissues examined.
Sequence similarities	Contains 3 KH domains.
Post-translational modifications	Phosphorylated. The non-phosphorylated form(s) exhibited the strongest poly(rC)-binding activity.
Cellular localization	Nucleus. Cytoplasm. Loosely bound in the nucleus. May shuttle between the nucleus and the cytoplasm.

Images



Western blot - Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835)

All lanes : Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835) at 1/10000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate
Lane 2 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate
Lane 3 : K562 (Human chronic myelogenous leukemia cells from bone marrow) whole cell lysate

Lysates/proteins at 20 µg per lane.

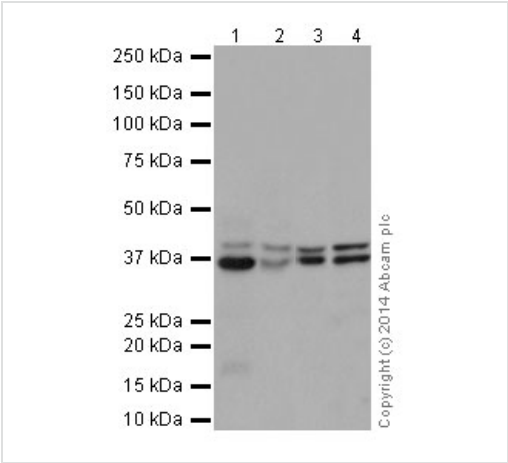
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 34-39 kDa
Observed band size: 35,39 kDa
why is the actual band size different from the predicted?

Exposure time: 3 minutes

Based on sequence analysis, ab200835 recognizes isoforms 1-6 which have corresponding Mw between 34-39kDa.

Blocking/Dilution Buffer: 5% NFDM/TBST.



Western blot - Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835)

All lanes : Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835) at 1/1000 dilution

Lane 1 : Mouse brain lysate
Lane 2 : Mouse heart lysate
Lane 3 : Rat heart lysate
Lane 4 : Rat spleen lysate

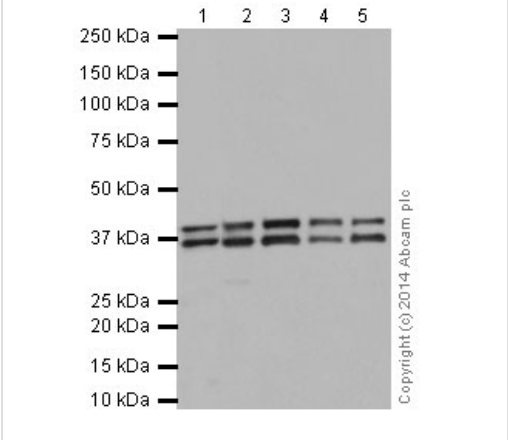
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 34-39 kDa
Observed band size: 35,39 kDa why is the actual band size different from the predicted?

Exposure time: 3 minutes

Blocking/Dilution Buffer: 5% NFDM/TBST.



Western blot - Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835)

All lanes : Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835) at 1/1000 dilution

Lane 1 : Rat heart lysate
Lane 2 : C6 (Rat glial tumor cells) whole cell lysate
Lane 3 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate
Lane 4 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate
Lane 5 : NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

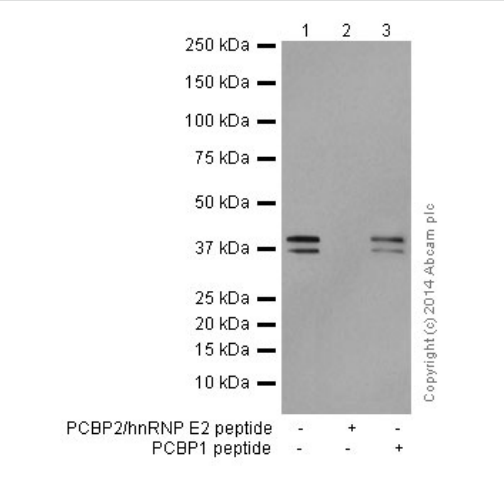
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 34-39 kDa
Observed band size: 35,39 kDa why is the actual band size different from the predicted?

Exposure time: 1 minute

Blocking/Dilution Buffer: 5% NFDM/TBST.



Western blot - Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835)

All lanes : Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835) at 1/10000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate
Lane 2 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with PCBP2/hnRNP E2 peptide
Lane 3 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with PCBP1 peptide

Lysates/proteins at 10 µg per lane.

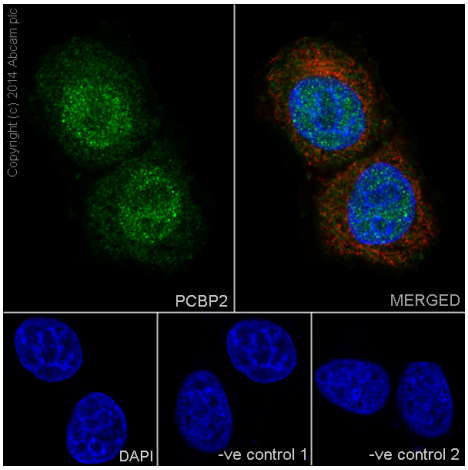
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 34-39 kDa
Observed band size: 35,39 kDa why is the actual band size different from the predicted?

Exposure time: 3 minutes

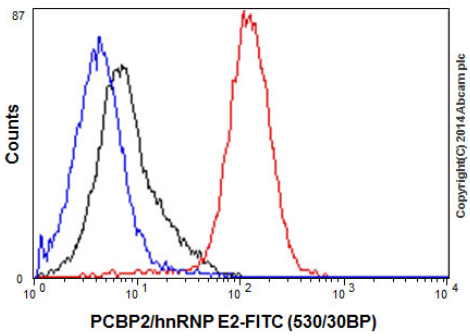
Blocking/Dilution Buffer: 5% NFDM/TBST.

Based on sequence analysis, ab200835 (PCBP2/hnRNP E2) shares 80% homology with family member PCBP1. The levels of XR were tested in the accompanying blocking experiment.



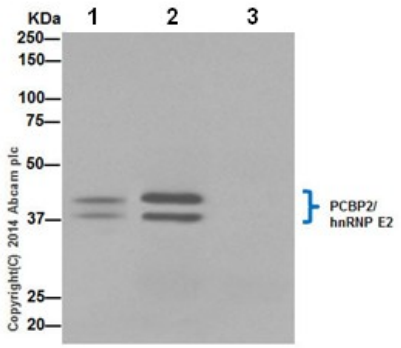
Immunocytochemistry/ Immunofluorescence - Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling PCBP2/hnRNP E2 with ab200835 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Nuclear and cytoplasmic staining on HeLa cell line is observed. The nuclear counter stain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).
The negative controls are as follows;
-ve control 1: ab200835 at 1/500 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
-ve control 2: ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Flow Cytometry - Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835)

Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling PCBP2/hnRNP E2 with ab200835 at 1/250 dilution (red) compared with a rabbit monoclonal IgG isotype control (ab172730; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/150 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-PCBP2/hnRNP E2 antibody [EPR14859(2)] (ab200835)

PCBP2/hnRNP E2 was immunoprecipitated from 1mg of Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate with ab200835 at 1/80 dilution. Western blot was performed from the immunoprecipitate using ab200835 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: Jurkat whole cell lysate 10 µg (Input). Lane 2: ab200835 IP in Jurkat whole cell lysate. Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab200835 in Jurkat whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 5 seconds

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