

Product datasheet

Anti-PPP2R1B antibody [EPR10158] **ab154815**

KO **VALIDATED**

Recombinant

RabMAb[®]

3 References [7 Images](#)

Overview

Product name	Anti-PPP2R1B antibody [EPR10158]
Description	Rabbit monoclonal [EPR10158] to PPP2R1B
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt (Intra) Unsuitable for: IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human PPP2R1B (internal sequence). The exact sequence is proprietary.
Positive control	WB: HEK293T, HeLa, HAP1, Caco 2 and Jurkat whole cell lysate (ab7899). Mouse spleen tissue lysate and Rat spleen tissue lysate, ICC/IF: Caco-2 cells. Flow Cyt (intra): Caco-2 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR10158

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154815 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		1/1000 - 1/10000. Predicted molecular weight: 66 kDa.
ICC/IF		1/50 - 1/100.
Flow Cyt (Intra)		Use at an assay dependent concentration.

Application notes

Is unsuitable for IHC-P or IP.

Target

Function

The PR65 subunit of protein phosphatase 2A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit.

Sequence similarities

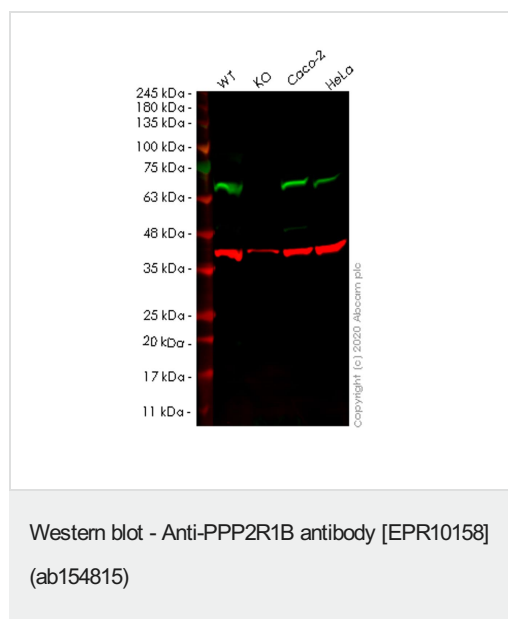
Belongs to the phosphatase 2A regulatory subunit A family.

Contains 15 HEAT repeats.

Domain

Each HEAT repeat appears to consist of two alpha helices joined by a hydrophilic region, the intrarepeat loop. The repeat units may be arranged laterally to form a rod-like structure.

Images



All lanes : Anti-PPP2R1B antibody [EPR10158] (ab154815) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : PPP2R1B knockout HEK293T cell lysate

Lane 3 : Caco-2 cell lysate

Lane 4 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

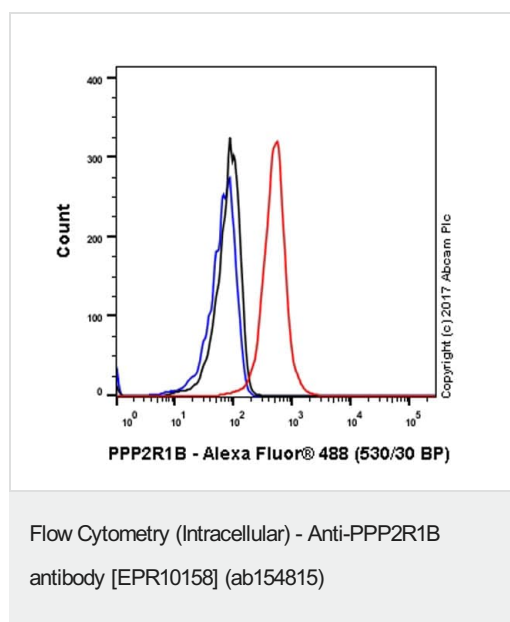
Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

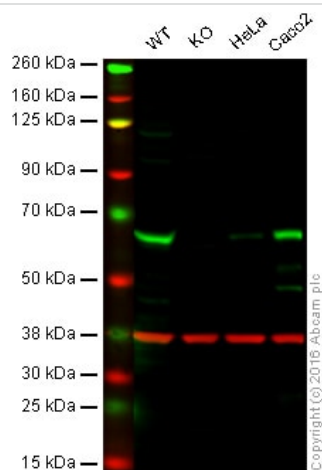
Predicted band size: 66 kDa

Lanes 1-4: Merged signal (red and green). Green - ab154815 observed at 66 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab154815 Anti-PPP2R1B antibody [EPR10158] was shown to specifically react with PPP2R1B in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266729** (knockout cell lysate **ab258133**) was used. Wild-type and PPP2R1B knockout samples were subjected to SDS-PAGE. ab154815 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 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.



Intracellular Flow Cytometry analysis of Caco-2 (human colorectal adenocarcinoma) cells labeling PPP2R1B with unpurified ab154815 at 1/40 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) (**ab172730**) was used as the isotype control, Cell without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Western blot - Anti-PPP2R1B antibody [EPR10158]
(ab154815)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

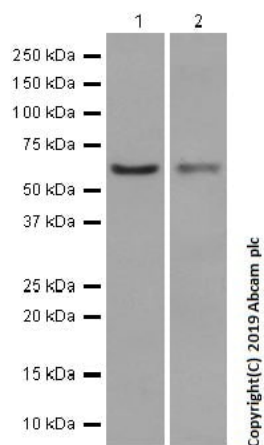
Lane 2: PPP2R1B knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lane 4: Caco2 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab154815 observed at 67 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab154815 was shown to specifically react with PPP2R1B when PPP2R1B knockout samples were used. Wild-type and PPP2R1B knockout samples were subjected to SDS-PAGE. ab154815 and **ab8245** (loading control to GAPDH) were diluted at 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with goat anti-rabbit IgG (H + L) and goat anti-mouse IgG (H + L) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-PPP2R1B antibody [EPR10158]
(ab154815)

All lanes : Anti-PPP2R1B antibody [EPR10158] (ab154815) at 1/1000 dilution

Lane 1 : Mouse spleen tissue lysate

Lane 2 : Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

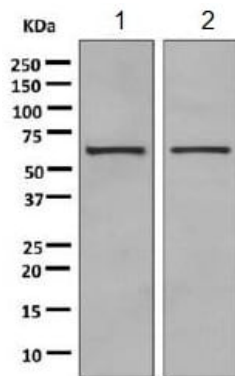
Secondary

All lanes : Goat Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG) at 1/2000 dilution

Predicted band size: 66 kDa

Observed band size: 66 kDa

Exposure time: 3 minutes



Western blot - Anti-PPP2R1B antibody [EPR10158] (ab154815)

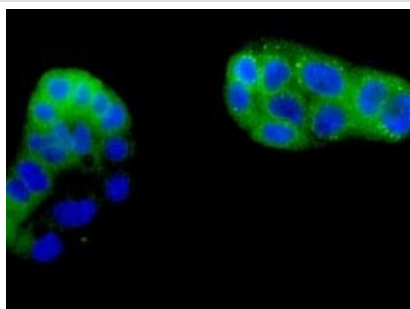
All lanes : Anti-PPP2R1B antibody [EPR10158] (ab154815) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : Caco 2 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 66 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PPP2R1B antibody [EPR10158] (ab154815)

Immunofluorescence analysis of Caco 2 cells, labeling PPP2R1B using ab154815 at 1/50 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PPP2R1B antibody [EPR10158] (ab154815)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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