abcam

Product datasheet

# Anti-PPP2R5D antibody [EPR15617] ab188323

KO VALIDATED Recombinant RabMAb

6 References 7 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-PPP2R5D antibody [EPR15617] |
| **Description** | Rabbit monoclonal [EPR15617] to PPP2R5D |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP |
| **Species reactivity** | **Reacts with:** Rat, Human<br>**Predicted to work with:** Mouse |
| **Immunogen** | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | WB: A431, MCF7, C6, HepG2, Jurkat, HeLa, 293T cell lysate. IHC-P: Human brain tissue. IP: HEK293 cells. Flow Cyt (intra): HeLa cells. |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>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

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| **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** | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR15617 |

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| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab188323 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 |
|---|---|---|
| **Flow Cyt (Intra)** | | 1/40.<br>**ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| **WB** | | 1/10000 - 1/50000. Detects a band of approximately 58, 66, 70 kDa (predicted molecular weight: 70 kDa). |
| **IHC-P** | | 1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |
| **ICC/IF** | | 1/250. |
| **IP** | | 1/40 - 1/60. |

## Target

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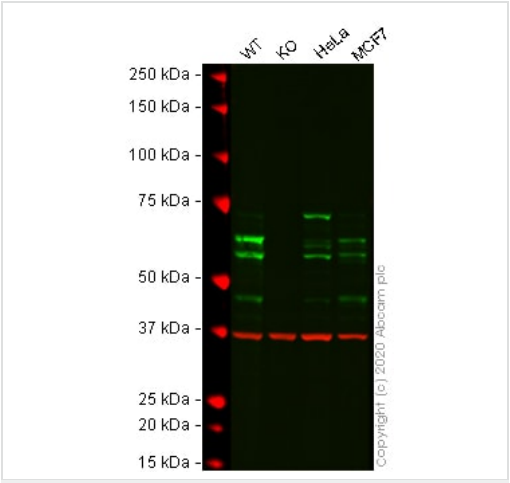
|---|---|
| **Function** | The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. |
| **Tissue specificity** | Isoform Delta-2 is widely expressed. Isoform Delta-1 is highly expressed in brain. |
| **Sequence similarities** | Belongs to the phosphatase 2A regulatory subunit B56 family. |
| **Cellular localization** | Cytoplasm. Nucleus. Nuclear in interphase, nuclear during mitosis. |

## Images




Western blot - Anti-PPP2R5D antibody [EPR15617] (ab188323)

**All lanes :** Anti-PPP2R5D antibody [EPR15617] (ab188323) at 1/10000 dilution

**Lane 1 :** Wild-type A-431 (Human epidermoid carcinoma cell line) whole cell lysate
**Lane 2 :** PPP2R5D knockout A-431 (Human epidermoid carcinoma cell line) whole cell lysate
**Lane 3 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
**Lane 4 :** MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

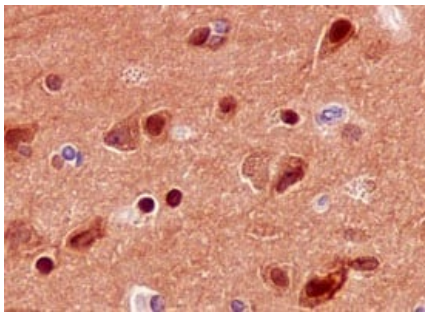
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 70 kDa
**Observed band size:** 60-65 kDa

**Lanes 1 - 4:** Merged signal (red and green). Green - ab188323 observed at 60-65 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

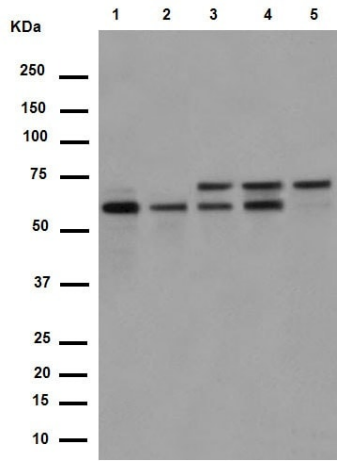
ab188323 was shown to react with PPP2R5D in wild-type A431 cells in western blot with loss of signal observed in PPP2R5D knockout sample. Wild-type and PPP2R5D knockout A431 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab188323 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 10000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PPP2R5D antibody [EPR15617] (ab188323)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling PPP2R5D using ab188323 at 1/100 dilution. A Ready to use HRP Polymer for Rabbit IgG (prediluted) was used as secondary. Counterstain: Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.




Western blot - Anti-PPP2R5D antibody [EPR15617] (ab188323)

**All lanes :** Anti-PPP2R5D antibody [EPR15617] (ab188323) at 1/100000 dilution

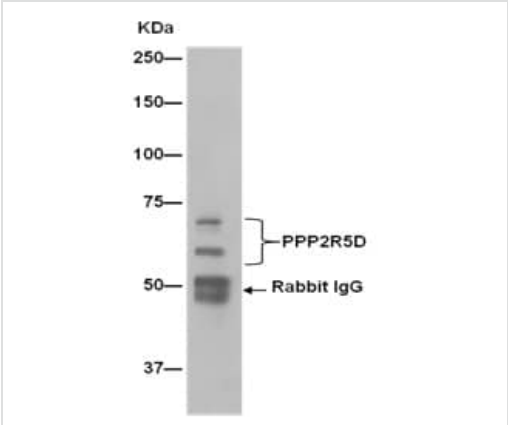
**Lane 1 :** C6 cell lysate
**Lane 2 :** HepG2 cell lysate
**Lane 3 :** 293T cell lysate
**Lane 4 :** HeLa cell lysate
**Lane 5 :** Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

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

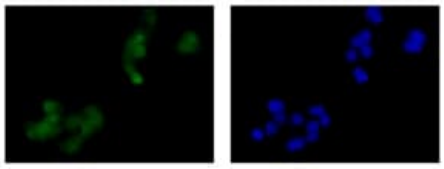
**Predicted band size:** 70 kDa
**Observed band size:** 70 kDa

Based on the sequence analysis, ab188323 recognizes 3 isoforms with the predicted MWs of 58KDa, 66KDa and 70KDa, respectively.



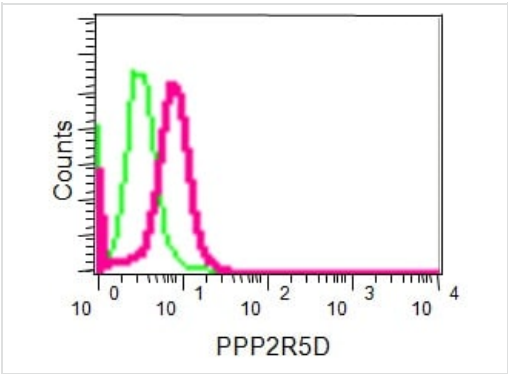

Immunoprecipitation - Anti-PPP2R5D antibody [EPR15617] (ab188323)

Immunoprecipitation analysis of 293T cell lysate labeling PPP2R5D using ab188323 at 1/50 dilution. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1500 was used as secondary antibody.



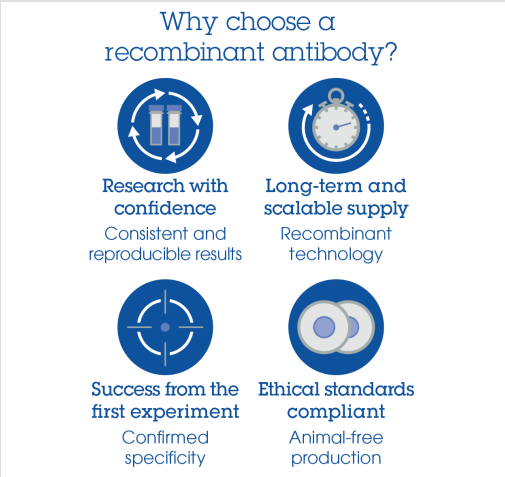
Immunocytochemistry/ Immunofluorescence - Anti-PPP2R5D antibody [EPR15617] (ab188323)

Immunofluorescence analysis of HepG2 cells labeling PPP2R5D using ab188323 at 1/250 dilution. A Goat anti rabbit IgG (Alexa Fluor488) at 1/200 dilution was used as secondary antibody. Cells were fixed with 4% Paraformaldehyde. Counterstain: DAPI.




Flow Cytometry (Intracellular) - Anti-PPP2R5D antibody [EPR15617] (ab188323)

Intracellular Flow Cytometry analysis of HeLa cells labeling PPP2R5D using ab188323 at 1/40 dilution (pink). A Goat anti rabbit IgG (FITC) at 1/150 dilution was used as secondary antibody. Cells were fixed with 2% paraformaldehyde. Isotype control: Rabbit monoclonal IgG (green).




Anti-PPP2R5D antibody [EPR15617] (ab188323)

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