abcam

Product datasheet

Anti-PPP2R5E antibody [EPR17147] - C-terminal ab198500

KO VALIDATED | Recombinant | RabMAb

9 Images

Overview

Product name	Anti-PPP2R5E antibody [EPR17147] - C-terminal
Description	Rabbit monoclonal [EPR17147] to PPP2R5E - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ICC/IF, IHC-P, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HEK-293T and Daudi cell lysates; Human skeletal muscle lysates. IHC: Human cervix carcinoma and bladder transitional cell carcinoma tissues. ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cell lysate. IP: HeLa 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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR17147
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab198500 in the following tested applications.

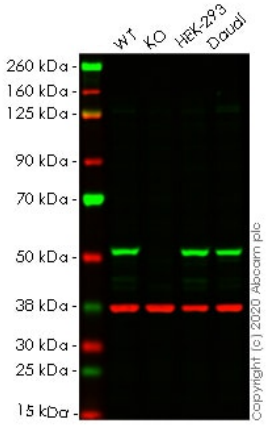
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).
IP		1/75.
ICC/IF		1/500.
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/2500.

Target

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.
Sequence similarities	Belongs to the phosphatase 2A regulatory subunit B56 family.
Post-translational modifications	Phosphorylated on serine residues.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

All lanes : Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500) at 1/5000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : PPP2R5E knockout HeLa cell lysate
Lane 3 : HEK-293 cell lysate
Lane 4 : Daudi cell lysate

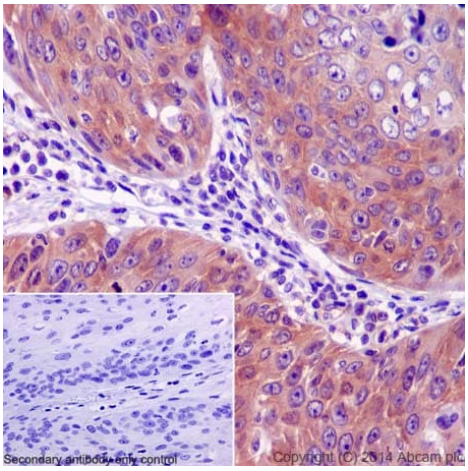
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 55 kDa

Lanes 1-4: Merged signal (red and green). Green - ab198500 observed at 55 kDa. Red - loading control ab8245 observed at 37 kDa.

ab198500 Recombinant Anti-PPP2R5E antibody [EPR17147] - C-terminal was shown to specifically react with PPP2R5E in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265637 (knockout cell lysate ab258135) was used. Wild-type and PPP2R5E knockout samples were subjected to SDS-PAGE. ab198500 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 5000 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.

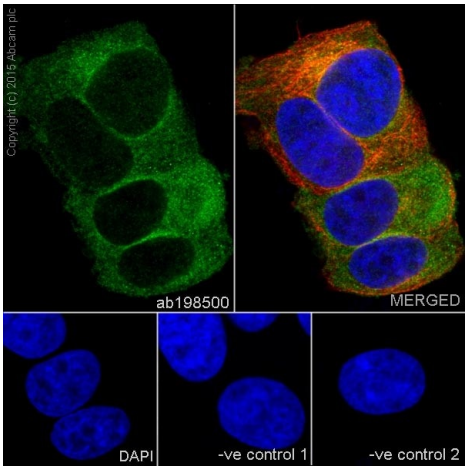


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling PPP2R5E with ab198500 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Human cervix carcinoma tissue isobserved. Counter-stained with Hematoxylin.

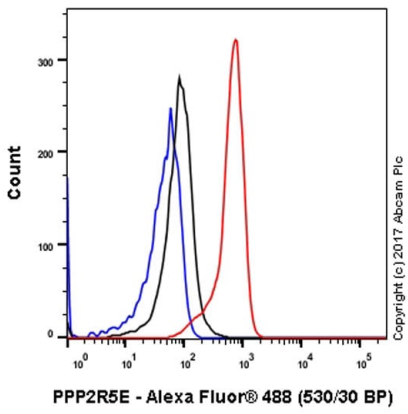
Negative control: Using PBS instead of primary antibody.

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



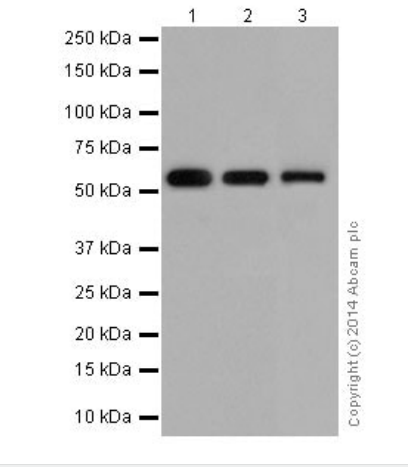
Immunocytochemistry/ Immunofluorescence - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF-7 (Human breast carcinoma) cells labeling PPP2R5E with ab198500 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Cytoplasm staining on MCF7 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;
1. ab198500 at 1/500 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
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 (Intracellular) - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling PPP2R5E (red) with purified ab198500 at a 1/2500 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).



Western blot - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

All lanes : Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500) at 1/5000 dilution

Lane 1 : HeLa cell lysate at 10 µg
Lane 2 : 293 cell lysate at 10 µg
Lane 3 : Human skeletal muscle lysate at 20 µg

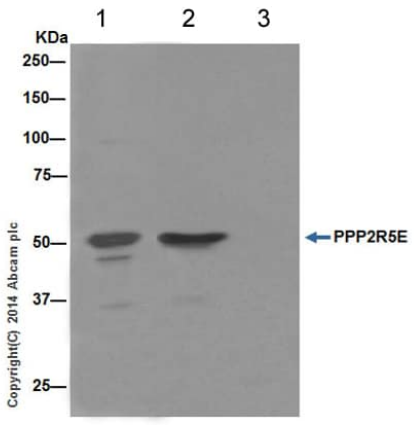
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 55 kDa
Observed band size: 55 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



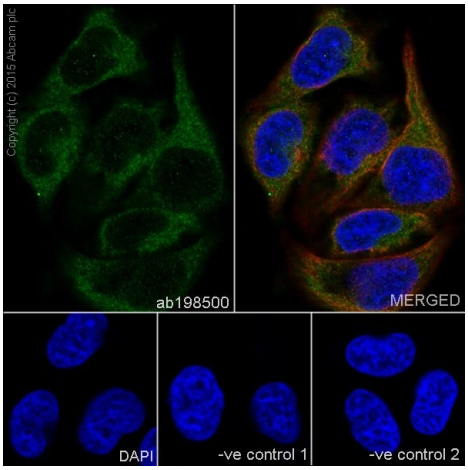
Immunoprecipitation - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

PPP2R5E was immunoprecipitated from 1mg of HeLa (Human cervix adenocarcinoma) whole cell extract with ab198500 at 1/175 dilution. Western blot was performed from the immunoprecipitate using ab198500 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: HeLa whole cell extract 10µg (Input).

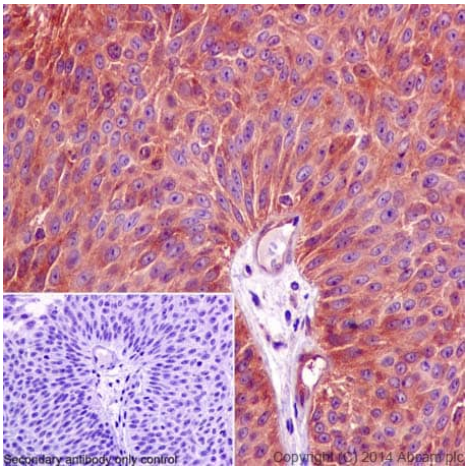
Lane 2: HeLa whole cell extract

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab198500 in HeLa whole cell extract.
Blocking and dilution buffer and concentration: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human cervix adenocarcinoma) cells labeling PPP2R5E with ab198500 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Cytoplasm 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;
1. ab198500 at 1/500 dilution followed by ab150120 (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
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.

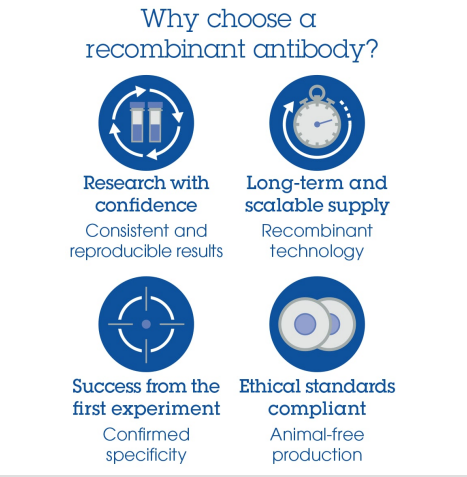


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling PPP2R5E with ab198500 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on Human transitional cell carcinoma of bladder tissue isobserved. Counter-stained with Hematoxylin.

Negative control: Using PBS instead of primary antibody.

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



Anti-PPP2R5E antibody [EPR17147] - C-terminal (ab198500)

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