abcam

Product datasheet

Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free ab239844

Recombinant RabMAb

6 Images

Overview

Product name	Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free
Description	Rabbit monoclonal [EP1511Y] to PPP1CA + PPP1CB - BSA and Azide free
Host species	Rabbit
Specificity	The immunogen for this antibody is 100% homologous with Human PPP1CA and PPP1CB
Tested applications	**Suitable for:** IHC-P, Flow Cyt (Intra), IP, ICC/IF, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	ab239844 is the carrier-free version of **ab52619**. 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	EP1511Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab239844 in the following tested applications.

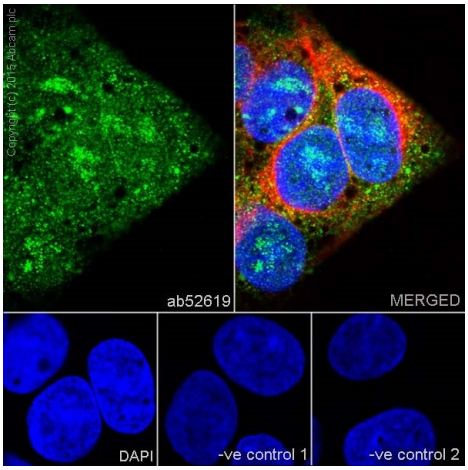
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
Flow Cyt (Intra)		Use at an assay dependent concentration. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 37 kDa.

Target

Cellular localization Cytoplasm. Nucleus. Nucleus > nucleoplasm. Nucleus > nucleolus.

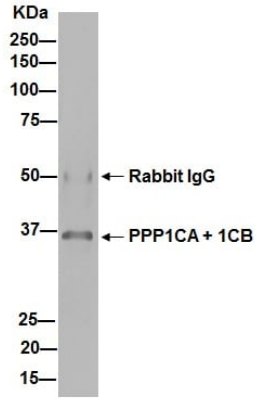
Images



Immunocytochemistry/ Immunofluorescence - Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free (ab239844)

ab52619 staining PPP1CA + 1CB in the HepG2 cell line by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with primary antibody (1/50). **ab150077**(1/500) an Alexa Fluor®488-conjugated Goat anti-rabbit IgG was used as the secondary antibody. Nuclei were counterstained with DAPI.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52619**).



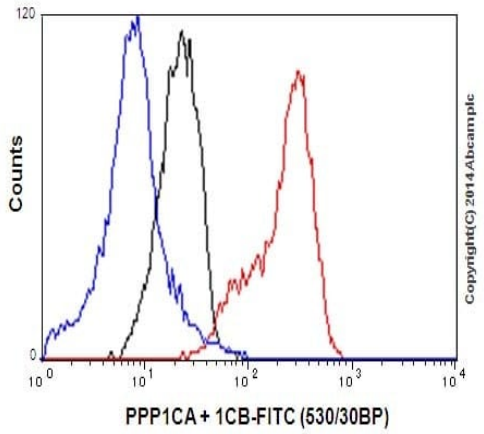
Immunoprecipitation - Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free (ab239844)

ab52619 (purified) at 1/30 immunoprecipitating PPP1CA + 1CB in Jurkat cell lysate. For western blotting, a HRP-conjugated Goat anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

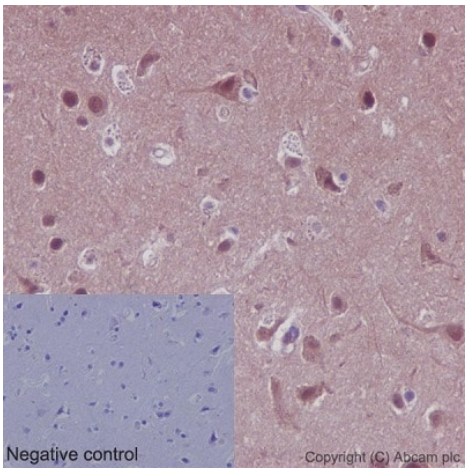
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52619**).



Flow Cytometry (Intracellular) - Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free (ab239844)

Overlay histogram showing HeLa cells stained with **ab52619** (red line) at 1/150 dilution. The cells were fixed with 80% methanol. The secondary antibody used was a FITC conjugated goat anti-rabbit IgG at 1/150 dilution. Isotype control antibody (black line) was rabbit monoclonal IgG used under the same conditions. Cells also incubated without primary antibody and secondary antibody (blue line)

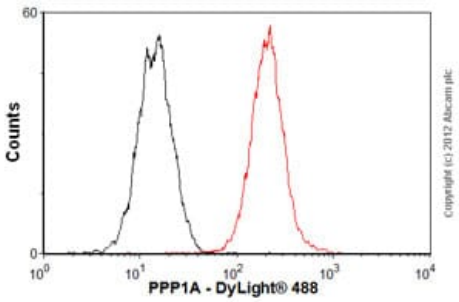
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52619**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free (ab239844)

ab52619 staining PP1CA + 1CB in Human cerebrum cortex tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed and paraffin-embedded, antigen retrieval was by heat mediation in Tris/EDTA buffer pH9. Samples were incubated with primary antibody (1/50). An undiluted HRP-conjugated mouse anti-rabbit IgG was used as the secondary antibody. Tissue counterstained with Hematoxylin. PBS was used in the negative control rather than the Primary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52619**).



Flow Cytometry (Intracellular) - Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free (ab239844)

Overlay histogram showing HeLa cells stained with **ab52619**, unpurified (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (**ab52619**, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52619**).

Anti-PPP1CA + PPP1CB antibody [EP1511Y] - BSA and Azide free (ab239844)

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