abcam

Product datasheet

Anti-PPP2R1A antibody [6G3] - BSA and Azide free ab255976

Recombinant

1 References 5 Images

Overview

Product name	Anti-PPP2R1A antibody [6G3] - BSA and Azide free
Description	Rat monoclonal [6G3] to PPP2R1A - BSA and Azide free
Host species	Rat
Tested applications	**Suitable for:** WB, ICC/IF **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant full length protein corresponding to Human PPP2R1A. Database link: **P30153** Run BLAST with Run BLAST with
Positive control	WB: HeLa, Jurkat ,Ramos, HepG2, C6 and RAW 264.7 whole cell lysate. ICC/IF: HeLa, RAW 264.7 and C6 cells.
General notes	ab255976 is the carrier-free version of **ab24736**. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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**.

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	Ion Exchange Chromatography
Clonality	Monoclonal
Clone number	6G3
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab255976 in the following tested applications.

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

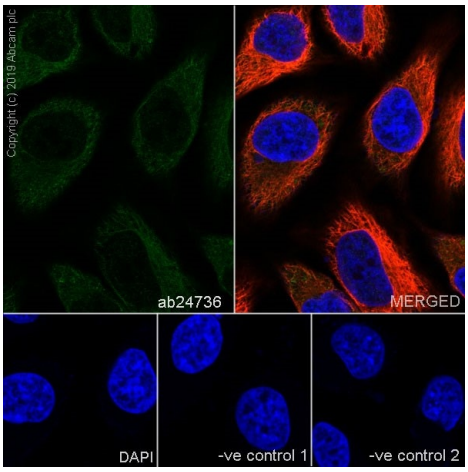
Application	Abreviews	Notes
WB		Use a concentration of 0.785 µg/ml. Predicted molecular weight: 65 kDa.
ICC/IF		Use a concentration of 7.85 µg/ml.

Application notes Is unsuitable for 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. Required for proper chromosome segregation and for centromeric localization of SGOL1 in mitosis.
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.
Cellular localization	Cytoplasm. Chromosome > centromere. Centromeric localization requires the presence of BUB1.

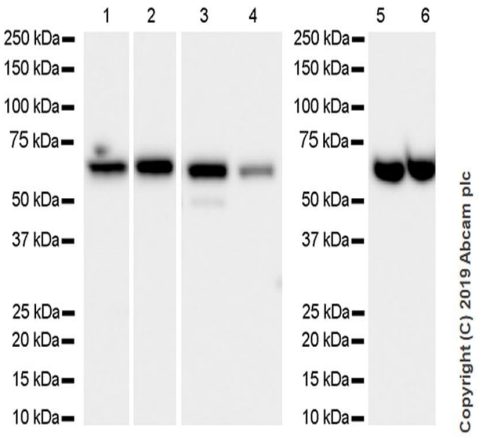
Images



Immunocytochemistry/ Immunofluorescence - Anti-PPP2R1A antibody [6G3] - BSA and Azide free (ab255976)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervix adenocarcinoma epithelial cell) cells labeling PPP2R1A with **ab24736** at 7.85µg/ml, followed by Goat Anti-Rat IgG (Alexa Fluor® 488) (**ab150157**) secondary antibody at 1/1000 dilution (green). Confocal image showing mainly showing cytoplasmic staining on HeLa cell line. The nuclear counterstain is DAPI (blue).
Tubulin is detected with **ab179504** Anti-beta IV Tubulin antibody - Microtubule Marker at 1/1000 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 594) (**ab150080**) secondary antibody at 1/1000 dilution (red).
The negative controls are as follows:
-ve control 1: **ab24736** at 1/100 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 594) (**ab150080**) secondary antibody at 1/1000 dilution.
-ve control 2: **ab179504** at 1/200 dilution, followed by **ab150157** AlexaFluor®488 Goat anti-rat secondary at 1/1000 dilution.

This image was produced using the same antibody clone but in a different formulation **ab24736**, PBS, sodium azide, glycerol and BSA.



Western blot - Anti-PPP2R1A antibody [6G3] - BSA and Azide free (ab255976)

All lanes : Anti-PPP2R1A antibody [6G3] (**ab24736**) at 0.785 µg/ml

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate
Lane 2 : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate
Lane 3 : Ramos (Human Burkitt's lymphoma B lymphocyte), whole cell lysate
Lane 4 : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate
Lane 5 : C6 (rat glial tumor glial cell), whole cell lysate
Lane 6 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rat IgG H&L (HRP) (**ab205720**) at 1/10000 dilution

Predicted band size: 65 kDa

Exposure time: 3 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

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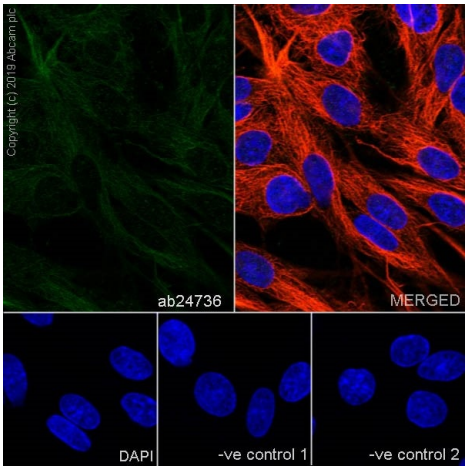

Immunocytochemistry/ Immunofluorescence - Anti-PPP2R1A antibody [6G3] - BSA and Azide free (ab255976)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C6 (rat glial tumor glial cell) cells labeling PPP2R1A with **ab24736** at 7.85µg/ml, followed by Goat Anti-Rat IgG (Alexa Fluor® 488) (**ab150157**) secondary antibody at 1/1000 dilution (green). Confocal image showing mainly showing cytoplasmic staining on C6 cell line. The nuclear counterstain is DAPI (blue).
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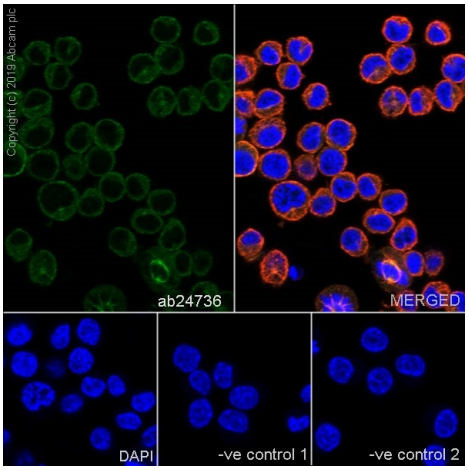

Immunocytochemistry/ Immunofluorescence - Anti-PPP2R1A antibody [6G3] - BSA and Azide free (ab255976)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) cells labeling PPP2R1A with **ab24736** at 7.85µg/ml, followed by Goat Anti-Rat IgG (Alexa Fluor® 488) (**ab150157**) secondary antibody at 1/1000 dilution (green). Confocal image showing mainly showing cytoplasmic staining on RAW 264.7 cell line. The nuclear counterstain is DAPI (blue).
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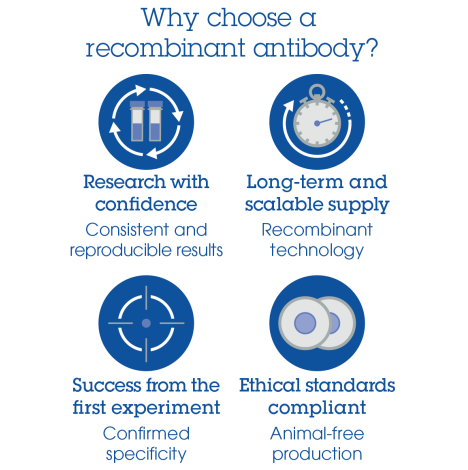

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