



Product datasheet

Anti-PPP2R1A antibody [6G3] ab24736

Recombinant

[1 References](#) [5 Images](#)

Overview

Product name	Anti-PPP2R1A antibody [6G3]
Description	Rat monoclonal [6G3] to PPP2R1A
Host species	Rat
Tested applications	Suitable for: ICC/IF, WB 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	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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>

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Ion Exchange Chromatography
Clonality	Monoclonal

Clone number 6G3
Isotype IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab24736 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
ICC/IF		Use a concentration of 7.85 µg/ml.
WB		Use a concentration of 0.785 µg/ml. Predicted molecular weight: 65 kDa.

Application notes Is unsuitable for IP.

Target

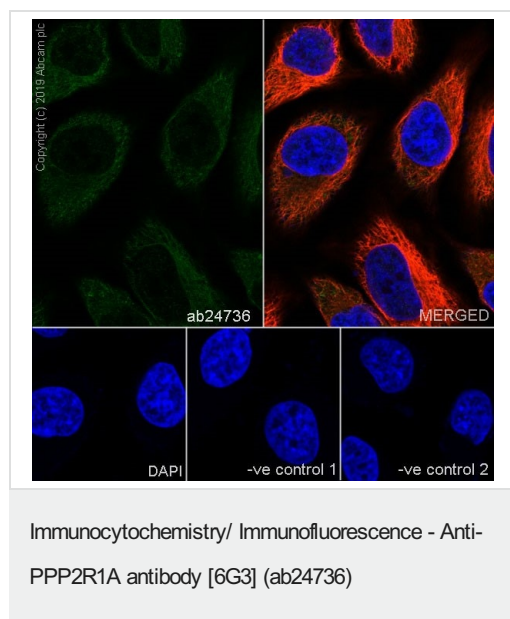
Function The PR65 subunit of protein phosphatase 2A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. Required for proper chromosome segregation and for centromeric localization of SGOL1 in mitosis.

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



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).

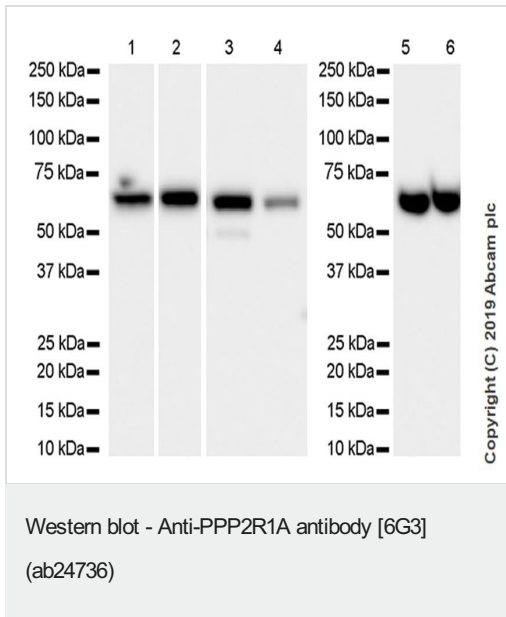
The negative controls are as follows:

-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.



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.

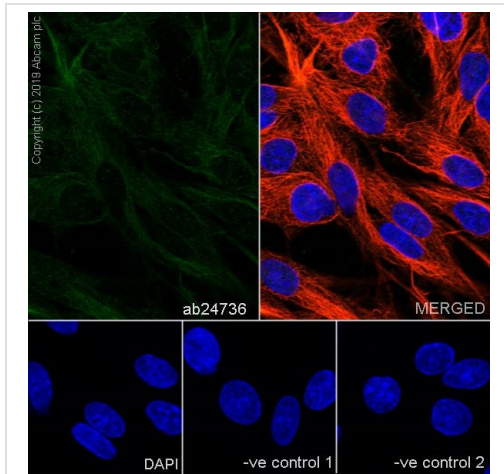
Secondary

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.



Immunocytochemistry/ Immunofluorescence - Anti-PPP2R1A antibody [6G3] (ab24736)

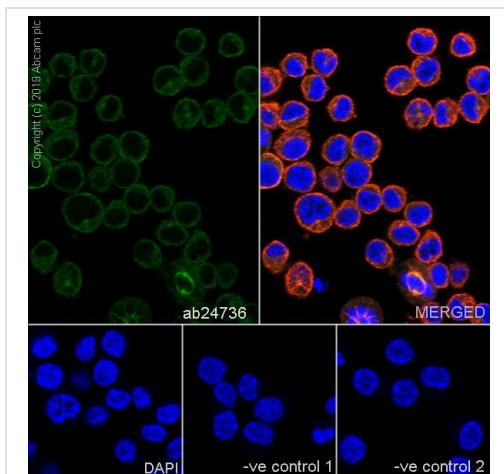
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C6 (rat glial tumor glial cell) cells labeling PPP2R1A with ab24736 at 7.85µg/ml, followed by Goat Anti-Rat IgG (Alexa Fluor® 488) (**ab150157**) secondary antibody at 1/1000 dilution (green). Confocal image showing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

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Immunocytochemistry/ Immunofluorescence - Anti-PPP2R1A antibody [6G3] (ab24736)

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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Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-PPP2R1A antibody [6G3] (ab24736)

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