

Product datasheet

Anti-IMPAA1 antibody [EPR15404(B)] ab184165

Recombinant **RabMAb**

★★★★★ 2 Abreviews 1 References 5 Images

Overview

Product name	Anti-IMPAA1 antibody [EPR15404(B)]
Description	Rabbit monoclonal [EPR15404(B)] to IMPAA1
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, WB, IP, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human IMPAA1 aa 50-150. The exact sequence is proprietary. Database link: P29218
Positive control	HCT116 and PC3 cells; Jurkat, PC3, HCT116 aand Human testis lysates.
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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15404(B)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab184165** 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		1/40. 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 30 kDa (predicted molecular weight: 30 kDa).
IP		1/40 - 1/60.
ICC/IF	★★★★★	1/100.

Target

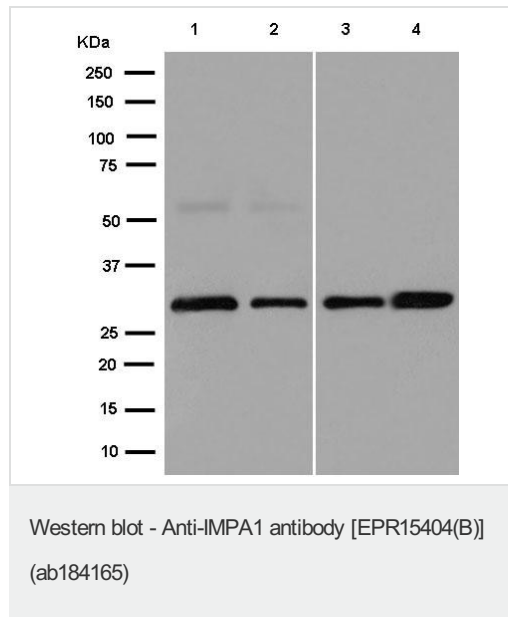
Function	Responsible for the provision of inositol required for synthesis of phosphatidylinositol and polyphosphoinositides and has been implicated as the pharmacological target for lithium action in brain. Can use myo-inositol monophosphates, myo-inositol-1,3-diphosphate, myo-inositol-1,4-diphosphate, scyllo-inositol-phosphate, glucose-1-phosphate, glucose-6-phosphate, fructose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates.
Pathway	Polyol metabolism; myo-inositol biosynthesis; myo-inositol from D-glucose 6-phosphate: step 2/2.

Sequence similarities

Belongs to the inositol monophosphatase family.

Cellular localization

Cytoplasm.

Images

All lanes : Anti-IMPA1 antibody [EPR15404(B)] (ab184165) at 1/50000 dilution

Lane 1 : Human testis tissue lysate

Lane 2 : Jurkat cell line lysate

Lane 3 : PC 3 cell line lysate

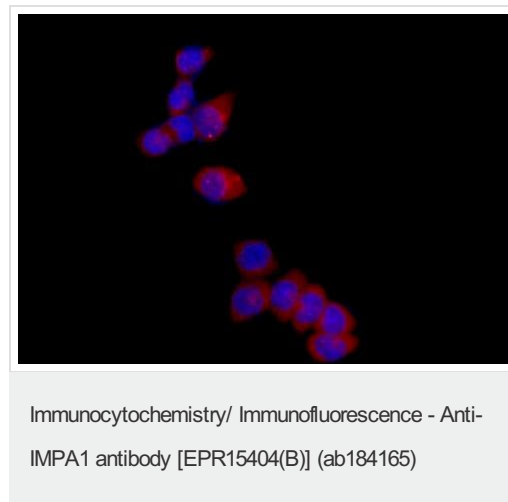
Lane 4 : HCT116 cell line lysate

Lysates/proteins at 20 µg per lane.

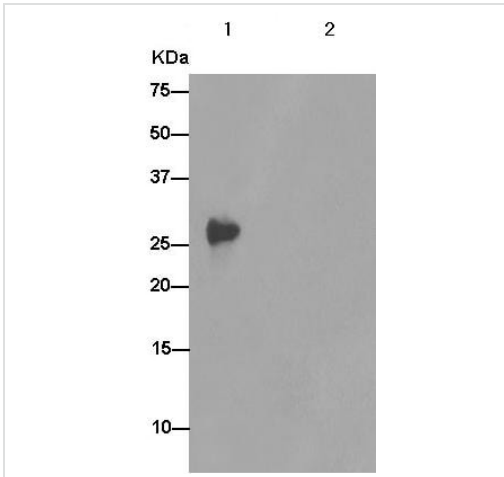
Secondary

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

Predicted band size: 30 kDa

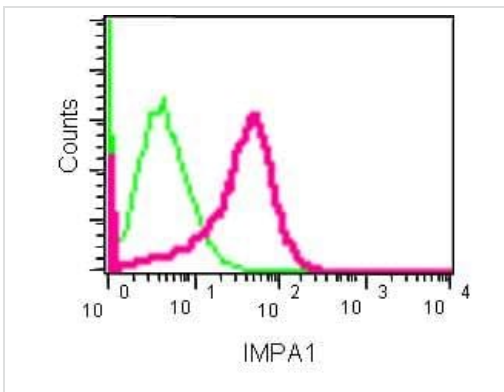


Immunofluorescent analysis of HCT116 cells (4% paraformaldehyde-fixed) labeling IMPA1 with ab184165 at 1/100 dilution followed by Goat anti rabbit IgG (Alexa Fluor® 555) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Immunoprecipitation - Anti-IMPA1 antibody
[EPR15404(B)] (ab184165)

Western blot analysis of immunoprecipitation pellet from Human testis tissue lysate (lane 1) or a PBS control (lane 2) immunoprecipitated using ab184165 at 1/50 dilution. Secondary: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.



Flow Cytometry - Anti-IMPA1 antibody
[EPR15404(B)] (ab184165)

Flow cytometric analysis of PC3 cells (2% paraformaldehyde-fixed) labeling IMPA1 with ab184165 at 1/40 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-IMPA1 antibody [EPR15404(B)] (ab184165)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors