

## Product datasheet

# Anti-MPP1 antibody [EPR5865] - BSA and Azide free ab247684


KO VALIDATED

Recombinant

RabMAb

3 Images

### Overview

Product name	Anti-MPP1 antibody [EPR5865] - BSA and Azide free
Description	Rabbit monoclonal [EPR5865] to MPP1 - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-P or IP
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK293T, Jurkat and K-562 cell lysates.
General notes	<p>ab247684 is the carrier-free version of <a href="#">ab108528</a>.</p> <p>Our <b>carrier-free</b> 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.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

## 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	Affinity purified
Clonality	Monoclonal
Clone number	EPR5865
Isotype	IgG

## Applications

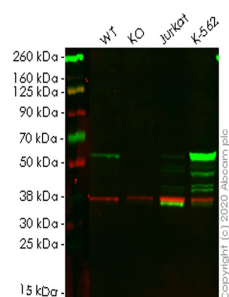
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab247684 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 52 kDa.

**Application notes** Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

## Target

Function	Essential regulator of neutrophil polarity. Regulates neutrophil polarization by regulating AKT1 phosphorylation through a mechanism that is independent of PIK3CG activity.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the MAGUK family. Contains 1 guanylate kinase-like domain. Contains 1 PDZ (DHR) domain. Contains 1 SH3 domain.
Post-translational modifications	Extensively palmitoylated.
Cellular localization	Membrane. Cell projection > stereocilium. Colocalizes with WHRN at stereocilium tip during hair cell development (By similarity). Colocalizes with MPP5 in the retina, at the outer limiting membrane (OLM). Colocalizes with WHRN in the retina, at the outer limiting membrane (OLM), outer plexiform layer (OPL), basal bodies and at the connecting cilium (CC). Colocalizes with NF2 in non-myelin-forming Schwann cells.



Western blot - Anti-MPP1 antibody [EPR5865] - BSA and Azide free (ab247684)

**All lanes :** Anti-MPP1 antibody [EPR5865] ([ab108528](#)) at 1/1000 dilution

**Lane 1 :** Wild-type HEK293T cell lysate

**Lane 2 :** MPP1 knockout HEK293T cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** K-562 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

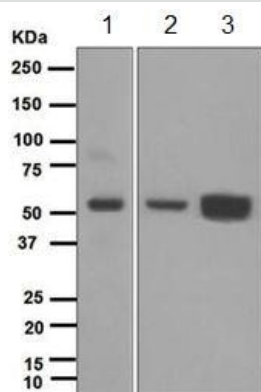
**Predicted band size:** 52 kDa

**Observed band size:** 52 kDa

This data was developed using [ab108528](#), the same antibody clone in a different buffer formulation.

**Lanes 1-4:** Merged signal (red and green). Green - [ab108528](#) observed at 52 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

[ab108528](#) Anti-MPP1 antibody [EPR5865] was shown to specifically react with MPP1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab267248](#) (knockout cell lysate [ab258051](#)) was used. Wild-type and MPP1 knockout samples were subjected to SDS-PAGE. [ab108528](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 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.



Western blot - Anti-MPP1 antibody [EPR5865] - BSA and Azide free (ab247684)

**All lanes** : Anti-MPP1 antibody [EPR5865] (**ab108528**) at 1/1000 dilution

**Lane 1** : K562 cell lysate

**Lane 2** : 293T cell lysate

**Lane 3** : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : HRP-labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 52 kDa

This data was developed using **ab108528**, the same antibody clone in a different buffer formulation.

### 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-MPP1 antibody [EPR5865] - BSA and Azide free (ab247684)

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

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