

## Product datasheet

# Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free ab247415

Recombinant RabMAb

[7 Images](#)

### Overview

<b>Product name</b>	Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR3023] to Epsin 1 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB <b>Unsuitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>ab247415 is the carrier-free version of <a href="#">ab75879</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 monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3023
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab247415 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 at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 58 kDa.

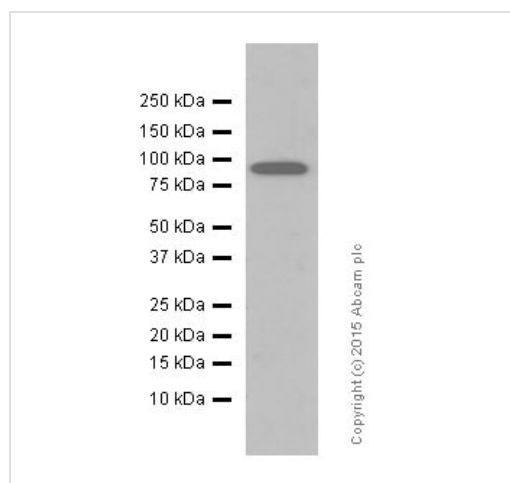
**Application notes** Is unsuitable for IHC-P.

## Target

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<b>Function</b>	Binds to membranes enriched in phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P <sub>2</sub> ). Modifies membrane curvature and facilitates the formation of clathrin-coated invaginations (By similarity). Regulates receptor-mediated endocytosis.
<b>Sequence similarities</b>	Belongs to the epsin family. Contains 1 ENTH (epsin N-terminal homology) domain. Contains 3 UIM (ubiquitin-interacting motif) repeats.
<b>Domain</b>	The NPF repeat domain is involved in EPS15 binding. The DPW repeat domain is involved in AP2A2 and clathrin binding. The [DE]-X(1,2)-F-X-X-[FL]-X-X-X-R motif mediates interaction with the AP-2 complex subunit AP2B1.
<b>Post-translational modifications</b>	Phosphorylated on serine and/or threonine residues in mitotic cells. Phosphorylation reduces interaction with REPS2, AP-2 and the membrane fraction. Depolarization of synaptosomes results in dephosphorylation. Ubiquitinated.
<b>Cellular localization</b>	Cytoplasm. Cell membrane. Nucleus. Membrane > clathrin-coated pit. Associated with the cytoplasmic membrane at sites where clathrin-coated pits are forming. Colocalizes with clathrin and AP-2 in a punctate pattern on the plasma membrane. Detected in presynaptic nerve terminals and in Golgi stacks. May shuttle to the nucleus when associated with ZBTB16/ZNF145.

## Images



Western blot - Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free (ab247415)

Anti-Epsin 1 antibody [EPR3023] ([ab75879](#)) at 1/5000 dilution (purified) + rat brain at 20 µg

### Secondary

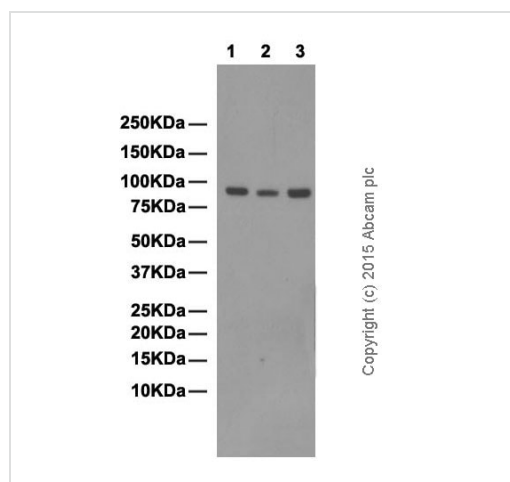
HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**Predicted band size:** 58 kDa

**Observed band size:** 94 kDa

This data was developed using [ab75879](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFD/MTBST.



Western blot - Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free (ab247415)

**All lanes :** Anti-Epsin 1 antibody [EPR3023] ([ab75879](#)) at 1/1000 dilution (purified)

**Lane 1 :** 293T cell lysate

**Lane 2 :** K562 cell lysate

**Lane 3 :** U-87 MG cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

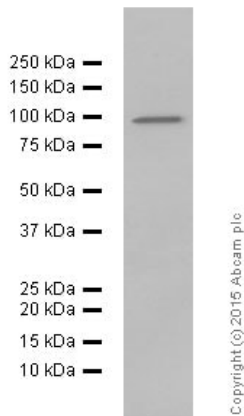
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/10000 dilution

**Predicted band size:** 58 kDa

**Observed band size:** 94 kDa

This data was developed using [ab75879](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFD/MTBST.



Western blot - Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free (ab247415)

Anti-Epsin 1 antibody [EPR3023] (**ab75879**) at 1/5000 dilution (purified) + mouse brain tissue lysate at 20 µg

### Secondary

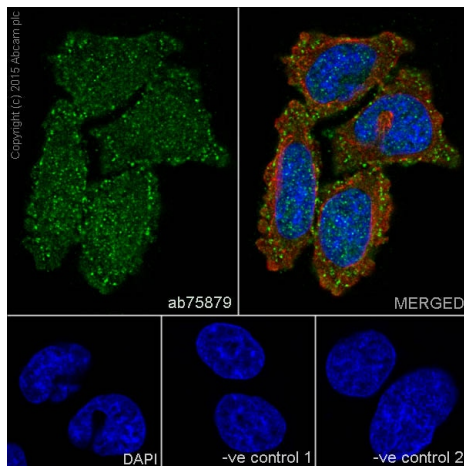
HRP goat anti-rabbit IgG (H+L) at 1/10000 dilution

**Predicted band size:** 58 kDa

**Observed band size:** 94 kDa

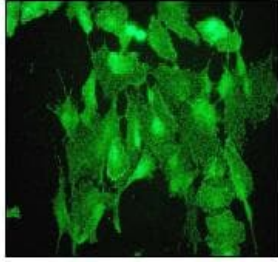
This data was developed using **ab75879**, the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDm/TBST.



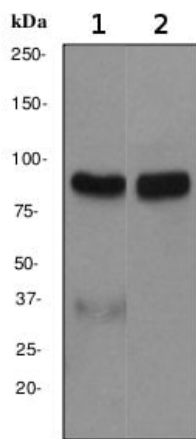
Immunocytochemistry/ Immunofluorescence - Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free (ab247415)

This data was developed using **ab75879**, the same antibody clone in a different buffer formulation. Immunofluorescence staining of HeLa cells with purified **ab75879** at a working dilution of 1/50, counter-stained with DAPI. The secondary antibody was Alexa Fluor<sup>®</sup> 488 goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. **ab7291**, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with **ab150120** (Alexa Fluor<sup>®</sup> 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified **ab75879** was used at a dilution of 1/500 followed by an Alexa Fluor<sup>®</sup> 594 goat anti-mouse antibody (**ab150120**) at a dilution of 1/500. For negative control 2, **ab7291** (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor<sup>®</sup> 488 goat anti-rabbit antibody (**ab150077**) at a dilution of 1/400.



Immunocytochemistry/ Immunofluorescence - Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free (ab247415)

This data was developed using **ab75879**, the same antibody clone in a different buffer formulation. Unpurified **ab75879**, at a 1/100 dilution, staining Epsin 1 in SH-SY5Y cells by Immunofluorescence.



Western blot - Anti-Epsin 1 antibody [EPR3023] - BSA and Azide free (ab247415)

**All lanes** : Anti-Epsin 1 antibody [EPR3023] (**ab75879**) at 1/2000 dilution (unpurified)

**Lane 1** : SH-SY5Y cell lysate

**Lane 2** : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Goat anti-rabbit-HRP at 1/1000 dilution

Developed using the ECL technique.

**Predicted band size:** 58 kDa

This data was developed using **ab75879**, 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-Epsin 1 antibody [EPR3023] - BSA and Azide free (ab247415)

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

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