

Product datasheet

Anti-EEA1 antibody [EPR4245] - BSA and Azide free ab239942

Recombinant RabMAb

3 Images

Overview

Product name	Anti-EEA1 antibody [EPR4245] - BSA and Azide free
Description	Rabbit monoclonal [EPR4245] to EEA1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human, African green monkey
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: COS-1, NIH 3T3, C6, HeLa, Jurkat, Daudi, SH-SY5Y and JAR cell lysates. ICC/IF: JAR cells.
General notes	ab239942 is the carrier-free version of ab109110 .

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](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

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	Protein A purified
Clonality	Monoclonal
Clone number	EPR4245
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab239942 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

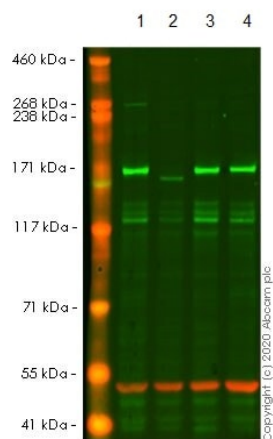
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 170 kDa (predicted molecular weight: 162 kDa).

Application notes Is unsuitable for IP.

Target

Function	Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate and participates in endosomal trafficking.
Sequence similarities	Contains 1 C2H2-type zinc finger. Contains 1 FYVE-type zinc finger.
Domain	The FYVE-type zinc finger domain mediates interactions with phosphatidylinositol 3-phosphate in membranes of early endosomes and penetrates bilayers. The FYVE domain insertion into PtdIns(3)P-enriched membranes is substantially increased in acidic conditions.
Cellular localization	Cytoplasm. Early endosome membrane.

Images



Western blot - Anti-EEA1 antibody [EPR4245] - BSA and Azide free (ab239942)

All lanes : Anti-EEA1 antibody [EPR4245] - Early Endosome Marker ([ab109110](#)) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : EEA1 CRISPR/Cas9 edited HeLa cell lysate

Lane 3 : Daudi cell lysate

Lane 4 : SH-SY5Y cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

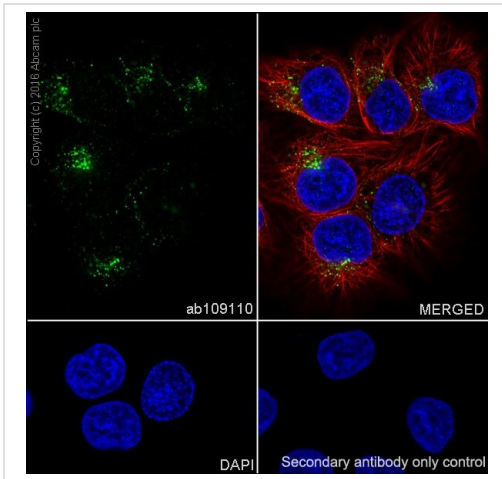
Predicted band size: 162 kDa

Observed band size: 175 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab109110](#)).

Lanes 1-4: Merged signal (red and green). Green - [ab109110](#) observed at 175 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) observed at 37 kDa.

[ab109110](#) was shown to react with EEA1 in wild-type HeLa cells in western blot. The band observed in CRISPR/Cas9 edited cell line [ab261822](#) (CRISPR/Cas9 edited cell lysate [ab256897](#)) lane below 175kDa may represent truncated forms and cleaved fragments. This has not been investigated further. Wild-type HeLa and EEA1 CRISPR/Cas9 edited HeLa cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. [ab109110](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at a 1 in 10000 dilution and a 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.



Immunocytochemistry/Immunofluorescence analysis of JAR (human placenta choriocarcinoma epithelial) cells labelling EEA1 with [ab109110](#) at a dilution of 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% TritonX-100. [ab150077](#), an Alexa Fluor® 488-conjugated goat anti-rabbit IgG was used as the secondary antibody at a dilution of 1/1000. Counterstained with DAPI and [ab195889](#), anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594), at a dilution of 1/200.

Image shows cytoplasmic staining in JAR cell line.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab109110](#)).

Immunocytochemistry/ Immunofluorescence - Anti-EEA1 antibody [EPR4245] - BSA and Azide free (ab239942)

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>

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

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