

Product datasheet

Anti-ALIX antibody [EPR15314-33] - N-terminal ab186728

KO VALIDATED Recombinant RabMAb[®]

[2 References](#) [3 Images](#)

Overview

Product name	Anti-ALIX antibody [EPR15314-33] - N-terminal
Description	Rabbit monoclonal [EPR15314-33] to ALIX - N-terminal
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human ALIX aa 1-150. The exact sequence is proprietary. Database link: Q8WUM4
Positive control	WB: HeLa, Jurkat, K562 and 293 cell 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	EPR15314-33
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab186728** 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		1/1000 - 1/10000. Detects a band of approximately 97, 80 kDa (predicted molecular weight: 97 kDa).

Target

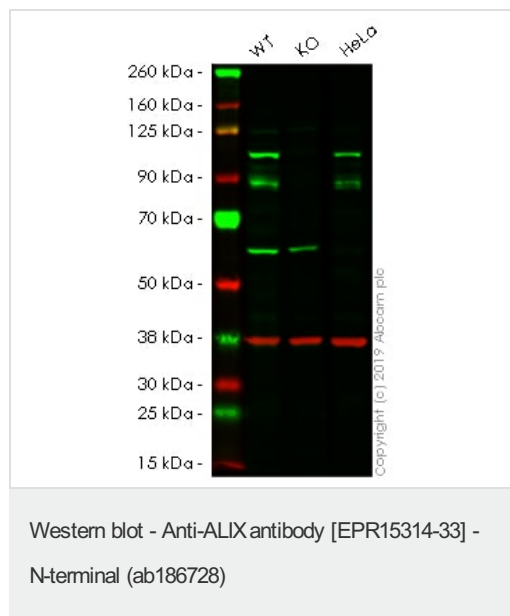
Function	Class E VPS protein involved in concentration and sorting of cargo proteins of the multivesicular body (MVB) for incorporation into intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome. Binds to the phospholipid lysobisphosphatidic acid (LBPA) which is abundant in MVBs internal membranes. The MVB pathway appears to require the sequential function of ESCRT-O, -I, -II and -III complexes. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and enveloped virus budding (HIV-1 and other lentiviruses). Appears to be an adapter for a subset of ESCRT-III proteins, such as CHMP4, to function at distinct membranes. Required for completion of cytokinesis. Involved in HIV-1 virus budding. Can replace TSG101 in its role of supporting HIV-1 release; this function implies the interaction with CHMP4B. May play a role in the regulation of both apoptosis and cell proliferation.
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Sequence similarities	Contains 1 BRO1 domain.
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Cellular localization

Cytoplasm > cytosol. Melanosome. Cytoplasm > cytoskeleton > centrosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Colocalized with CEP55 in the midbody during cytokinesis. Colocalized with CEP55 at centrosomes of non-dividing cells.

Images



All lanes : Anti-ALIX antibody [EPR15314-33] - N-terminal (ab186728) at 1/5000 dilution

Lane 1 : Wild-type HEK-293 whole cell lysate

Lane 2 : ALIX knockout HEK-293 whole cell lysate

Lane 3 : HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

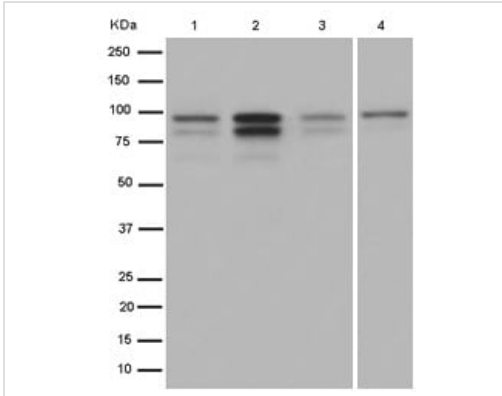
Predicted band size: 97 kDa

Observed band size: 96 kDa

[why is the actual band size different from the predicted?](#)

Lanes 1 - 3: Merged signal (red and green). Green - ab186728 observed at 96 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab186728 was shown to recognize in wild-type HEK-293 cells as signal was lost at the expected MW in ALIX knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and ALIX knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. ab186728 and [ab8245](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed [ab216776](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ALIX antibody [EPR15314-33] - N-terminal (ab186728)

All lanes : Anti-ALIX antibody [EPR15314-33] - N-terminal (ab186728) at 1/10000 dilution

Lane 1 : 293 cell lysate

Lane 2 : K562 cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : HeLa cell lysate




Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 97 kDa

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-ALIX antibody [EPR15314-33] - N-terminal (ab186728)

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

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- Response to your inquiry within 24 hours

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