


Product datasheet

Anti-ATG9A antibody - C-terminal ab229334

7 Images

Overview

Product name	Anti-ATG9A antibody - C-terminal
Description	Rabbit polyclonal to ATG9A - C-terminal
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF, IP
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Cow, Pig, Rhesus monkey 
Immunogen	Synthetic peptide within Human ATG9A (C terminal). The exact sequence is proprietary. Conjugated to a carrier protein. Database link: Q7Z3C6
Positive control	WB: HeLa, HEK-293T, A431, PC-12, Rat-2, BCL-1 and RD whole cell lysates. IHC-P: Human colon carcinoma tissue. ICC/IF: A431 cells.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>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.</p>

Properties

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 79.99% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab229334** in the following tested applications.

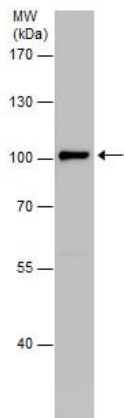
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.
WB		1/500 - 1/3000. Predicted molecular weight: 94 kDa.
ICC/IF		1/100 - 1/1000.
IP		1/100 - 1/500.

Target

Function	Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle. Cycles between a juxta-nuclear trans-Golgi network compartment and late endosomes. Nutrient starvation induces accumulation on autophagosomes. Starvation-dependent trafficking requires ULK1, ATG13 and SUPT20H.
Sequence similarities	Belongs to the ATG9 family.
Cellular localization	Cytoplasmic vesicle, autophagosome membrane. Golgi apparatus, trans-Golgi network membrane. Late endosome membrane. Endoplasmic reticulum membrane. Under amino acid starvation or rapamycin treatment, redistributes from a juxtannuclear clustered pool to a dispersed peripheral cytosolic pool. The starvation-induced redistribution depends on ULK1, ATG13, as well as SH3GLB1.

Images



Western blot - Anti-ATG9A antibody - C-terminal (ab229334)

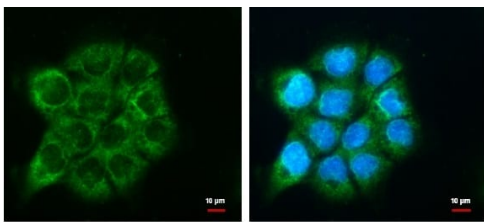
Anti-ATG9A antibody - C-terminal (ab229334) at 1/1000 dilution + RD (human rhabdomyosarcoma cell line) whole cell extract at 30 μ g

Secondary

HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 94 kDa

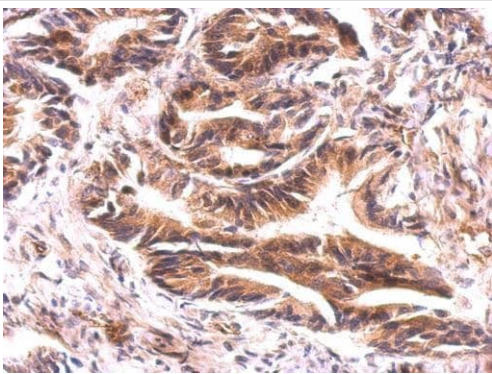
7.5% SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-ATG9A antibody - C-terminal (ab229334)

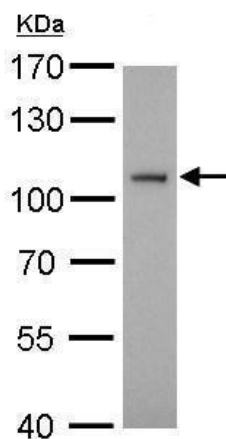
A431 (human epidermoid carcinoma cell line) cells were stained for ATG9A (green) using ab229334 at 1/500 dilution in ICC/IF. Cells were fixed in 100% methanol for 5 minutes.

Nuclear counterstain: Hoechst 33342 (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATG9A antibody - C-terminal (ab229334)

Paraffin-embedded human colon carcinoma tissue stained for ATG9A using ab229334 at 1/500 dilution in immunohistochemical analysis.



Western blot - Anti-ATG9A antibody - C-terminal (ab229334)

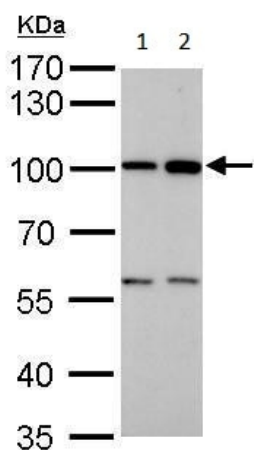
Anti-ATG9A antibody - C-terminal (ab229334) at 1/1000 dilution + BCL-1 (mouse B lymphocyte lymphoma cell line) whole cell lysate at 30 µg

Secondary

HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 94 kDa

7.5% SDS-PAGE gel.



Western blot - Anti-ATG9A antibody - C-terminal (ab229334)

All lanes : Anti-ATG9A antibody - C-terminal (ab229334) at 1/1000 dilution

Lane 1 : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate

Lane 2 : Rat2 (rat fibroblast cell line) whole cell lysate

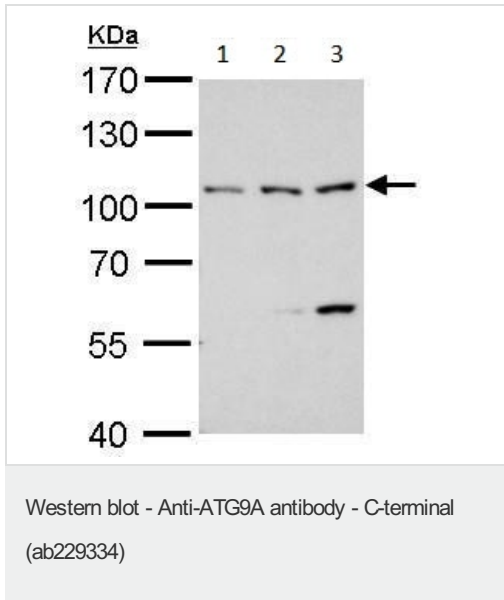
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 94 kDa

7.5% SDS-PAGE gel.



All lanes : Anti-ATG9A antibody - C-terminal (ab229334) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell lysate

Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

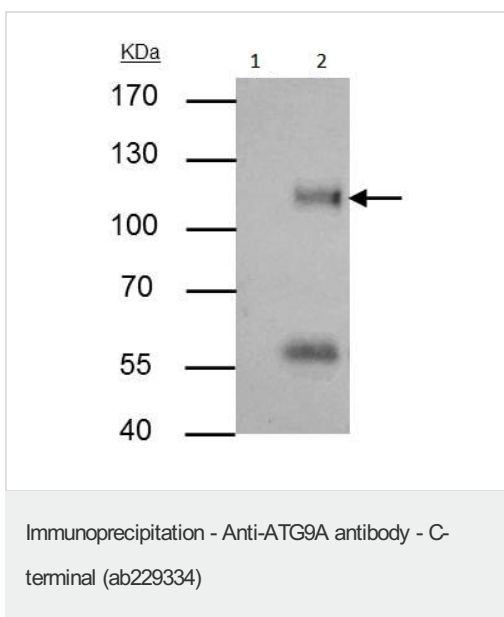
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 94 kDa

7.5% SDS-PAGE gel.



ATG9A was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract with 4 µg of ab229334. Western blot was performed from the immunoprecipitate using ab229334 at 1/500 dilution.

Lane 1 : 4 µg preimmune rabbit IgG instead of ab229334 in HeLa whole cell extract.

Lane 2: ab229334 IP in HeLa whole cell extract.

7.5% SDS-PAGE gel.

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