

Product datasheet

Anti-APG5L/ATG5 antibody [EPR4797] ab109490

**KO VALIDATED** Recombinant RabMAb

15 References 6 Images

Overview

<b>Product name</b>	Anti-APG5L/ATG5 antibody [EPR4797]
<b>Description</b>	Rabbit monoclonal [EPR4797] to APG5L/ATG5
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB, IHC-P, ICC <b>Unsuitable for:</b> IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human APG5L/ATG5 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: <a href="#">Q9H1Y0</a>
<b>Positive control</b>	THP1, Raji, HeLa, HT1080 and Human fetal kidney lysates; Human breast carcinoma and Human kidney tissues.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> .  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> .

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 50% Glycerol, 0.05% BSA
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal

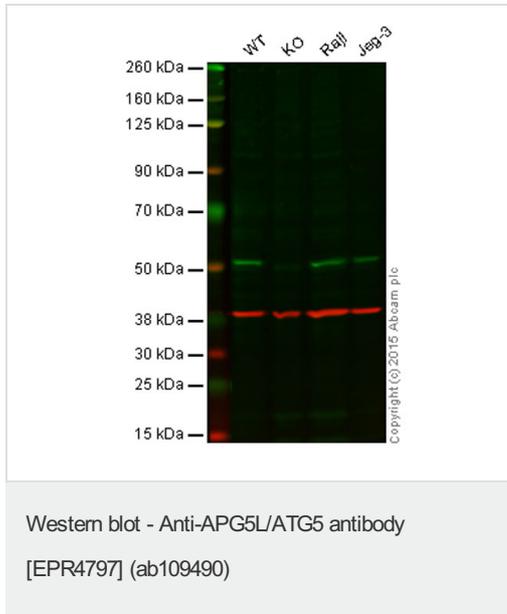


Acetylated by EP300.

## Cellular localization

Cytoplasm. Preautophagosomal structure membrane. Colocalizes with nonmuscle actin. The conjugate detaches from the membrane immediately before or after autophagosome formation is completed (By similarity). Localizes also to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme.

## Images



**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

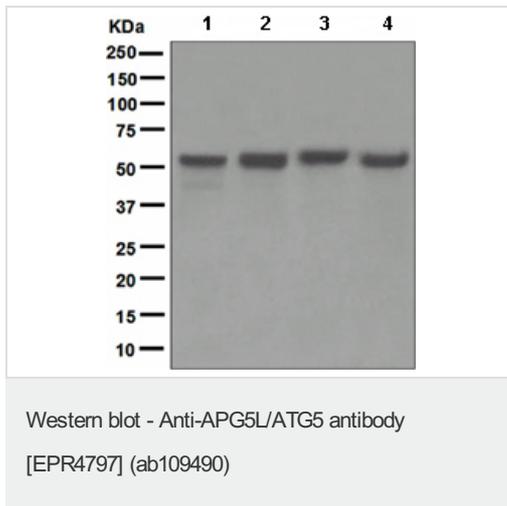
**Lane 2:** APG5L/ATG5 knockout HAP1 cell lysate (20 µg)

**Lane 3:** Raji cell lysate (20 µg)

**Lane 4:** Jeg-3 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab109490 observed at 52 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab109490 was shown to specifically react with APG5L/ATG5 when APG5L/ATG5 knockout samples were used. Wild-type and APG5L/ATG5 knockout samples were subjected to SDS-PAGE. ab109490 and ab8245 (loading control to GAPDH) were diluted 1/1000 and 1/2000 respectively and incubated overnight at 4°C. 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 1/10 000 dilution for 1 h at room temperature before imaging.



**All lanes :** Anti-APG5L/ATG5 antibody [EPR4797] (ab109490) at 1/1000 dilution

**Lane 1 :** THP1 cell lysate

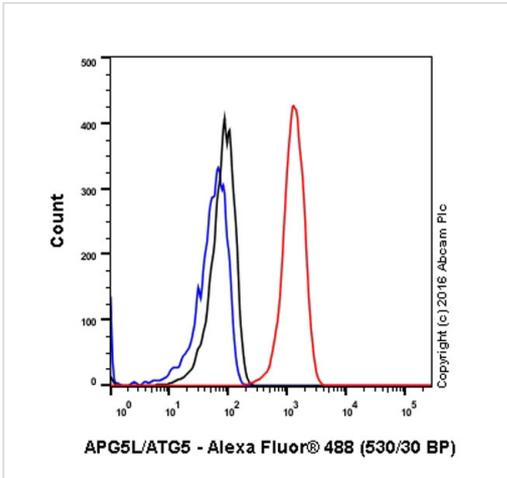
**Lane 2 :** Raji cell lysate

**Lane 3 :** HeLa cell lysate

**Lane 4 :** HT1080 cell lysate

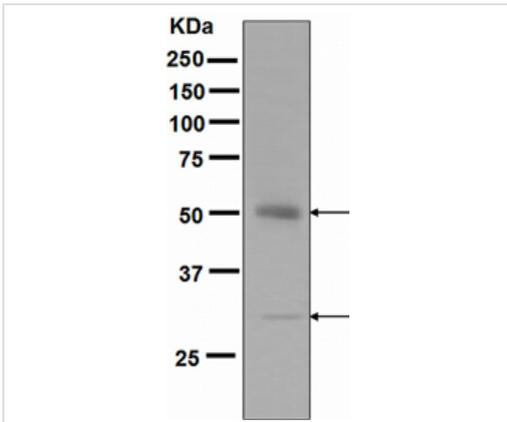
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 32 kDa



Flow Cytometry - Anti-APG5L/ATG5 antibody [EPR4797] (ab109490)

Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling APG5L/ATG5 with purified ab109490 at 1/250 dilution (10ug/mL) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

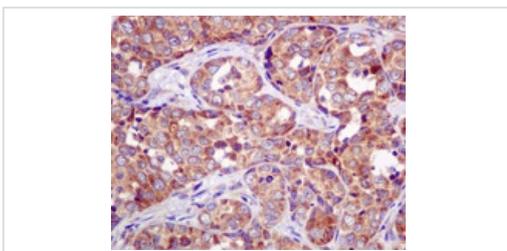


Western blot - Anti-APG5L/ATG5 antibody [EPR4797] (ab109490)

Anti-APG5L/ATG5 antibody [EPR4797] (ab109490) at 1/1000 dilution + Human fetal kidney lysate at 10 µg

**Predicted band size:** 32 kDa

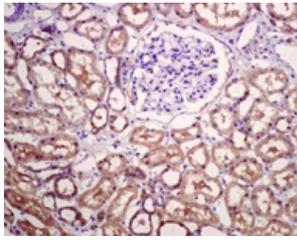
Upper band shows APG5L/ATG5 conjugated to ATG12.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APG5L/ATG5 antibody [EPR4797] (ab109490)

ab109490, at 1/100 dilution, staining APG5L/ATG5 in paraffin-embedded Human breast carcinoma by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APG5L/ATG5 antibody [EPR4797] (ab109490)

ab109490, at 1/100 dilution, staining APG5L/ATG5 in paraffin-embedded Human kidney by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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

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