


## Product datasheet

### Anti-ATG4B antibody [EPR6436(2)] ab154843

KO **VALIDATED** Recombinant RabMAb<sup>®</sup>

★★★★★ [2 Abreviews](#) [6 References](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-ATG4B antibody [EPR6436(2)]
<b>Description</b>	Rabbit monoclonal [EPR6436(2)] to ATG4B
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB <b>Unsuitable for:</b> ICC/IF, IHC-P or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Synthetic peptide within Human ATG4B. The exact sequence is proprietary.
<b>Positive control</b>	Recombinant Human ATG4B protein ( <a href="#">ab123195</a> ) can be used as a positive control in WB. Ramos, 293T, Jurkat and HeLa cell lysates; Jurkat cells.
<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 -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal

**Clone number** EPR6436(2)

**Isotype** IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab154843 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
Flow Cyt (Intra)		1/100 - 1/500. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 44 kDa.

**Application notes** Is unsuitable for ICC/IF, IHC-P or IP.

## Target

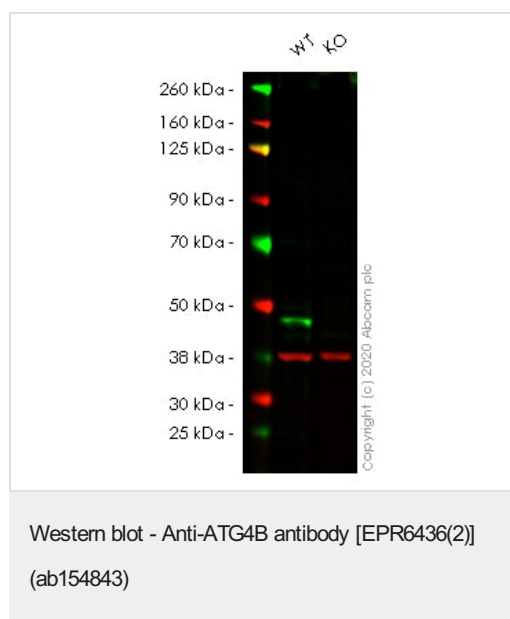
**Function** Cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes.

**Tissue specificity** Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas.

**Sequence similarities** Belongs to the peptidase C54 family.

**Cellular localization** Cytoplasm.

## Images



**All lanes** : Anti-ATG4B antibody [EPR6436(2)] (ab154843) at 1/1000 dilution

**Lane 1** : Wild-type HeLa cell lysate

**Lane 2** : ATG4B knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

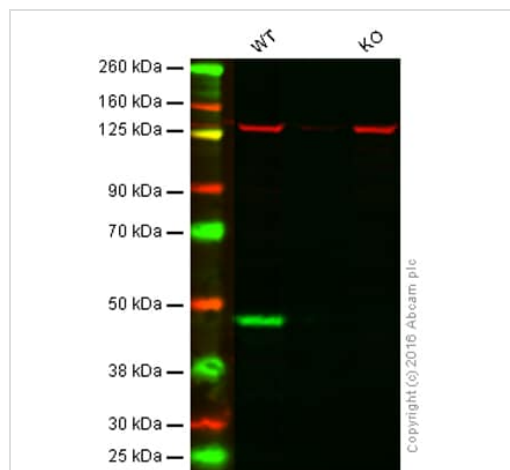
Performed under reducing conditions.

**Predicted band size:** 44 kDa

**Observed band size:** 47 kDa

**Lanes 1 - 2:** Merged signal (red and green). Green - ab154843 observed at 47 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab154843 was shown to react with ATG4B in wild-type HEK293T cells in Western blot with loss of signal observed in ATG4B knockout cell line **ab265814** (ATG4B knockout cell lysate **ab257364**). Wild-type and ATG4B knockout HEK293T cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab154843 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 h at room temperature before imaging.



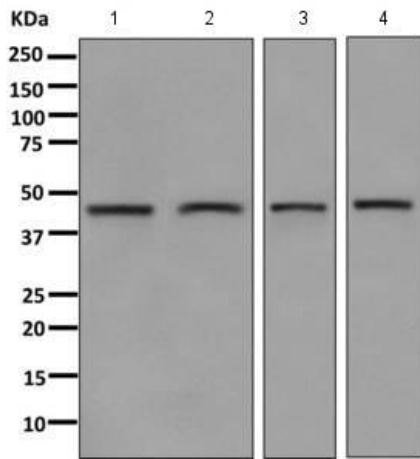
Western blot - Anti-ATG4B antibody [EPR6436(2)] (ab154843)

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

**Lane 2:** ATG4B knockout HAP1 cell lysate (20 µg)

**Lanes 1 - 2:** Merged signal (red and green). Green - ab154843 observed at 47 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab154843 was shown to specifically react with ATG4B when ATG4B knockout samples were used. Wild-type and ATG4B knockout samples were subjected to SDS-PAGE. ab154843 and **ab18058** (loading control to Vinculin) were diluted at 1/1000 and 1/10000 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 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ATG4B antibody [EPR6436(2)] (ab154843)

**All lanes :** Anti-ATG4B antibody [EPR6436(2)] (ab154843) at 1/1000 dilution

**Lane 1 :** Ramos cell lysate

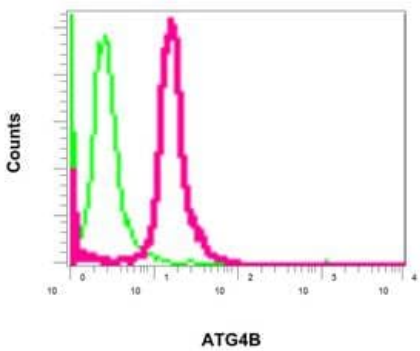
**Lane 2 :** 293T cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** HeLa cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 44 kDa



Flow Cytometry (Intracellular) - Anti-ATG4B antibody [EPR6436(2)] (ab154843)

Intracellular Flow Cytometry analysis of permeabilized Jurkat cells labeling ATG4B (red), using ab154843 at a 1/100 dilution, and negative control cells probed with a Rabbit IgG (green)

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-ATG4B antibody [EPR6436(2)] (ab154843)

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

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