

### Anti-ATG16L1 antibody [5H9A11] ab233796

敲除验证

#### 8 图像

#### 概述

产品名称	Anti-ATG16L1抗体[5H9A11]
描述	小鼠单克隆抗体[5H9A11] to ATG16L1
宿主	Mouse
经测试应用	适用于: WB, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment corresponding to Human ATG16L1 aa 11-257. Expressed in E.coli. Database link: <a href="#">Q676U5</a>
阳性对照	WB: Recombinant human ATG16L1 (aa 11-257) protein; ATG16L1 (aa 11-257)-hlgG-Fc-transfected HEK-293 cell lysate; HeLa, Raji, PANC-1, Jurkat, Daudi, PC-12, HepG2, HEK-293 and NIH/3T3 cell lysates, Wild-type THP-1 cell lysate, Wild type HeLa cell lysate. Flow cyt: HeLa cells.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.05% Sodium azide Constituent: PBS
纯度	Protein G purified
纯化说明	Purified from tissue culture supernatant.
克隆	单克隆

克隆编号5H9A11

同种型IgG1

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab233796于以下的经测试应用

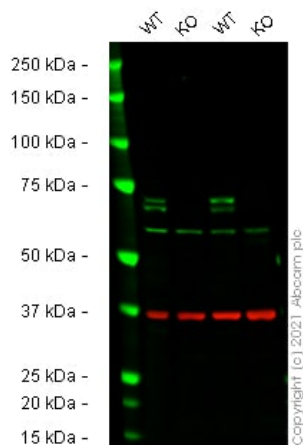
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/500 - 1/2000. Predicted molecular weight: 68 kDa.
Flow Cyt		1/200 - 1/400.

靶标

功能	Plays an essential role in autophagy: interacts with ATG12-ATG5 to mediate the conjugation of phosphatidylethanolamine (PE) to LC3 (MAP1LC3A, MAP1LC3B or MAP1LC3C), to produce a membrane-bound activated form of LC3 named LC3-II. Thereby, controls the elongation of the nascent autophagosomal membrane.
疾病相关	Inflammatory bowel disease 10
序列相似性	Belongs to the WD repeat ATG16 family. Contains 7 WD repeats.
翻译后修饰	Proteolytic cleavage by activated CASP3 leads to degradation and may regulate autophagy upon cellular stress and apoptotic stimuli.
细胞定位	Cytoplasm. Preautophagosomal structure membrane. Recruited to omegasomes membranes by WIP12. Omegasomes are endoplasmic reticulum connected strutures at the origin of preautophagosomal structures. Localized to preautophagosomal structure (PAS) where it is involved in the membrane targeting of ATG5. Localizes also to discrete punctae along the ciliary axoneme.
形式	There are 4 isoforms produced by alternative splicing.

图片



Western blot - Anti-ATG16L1 antibody [5H9A11]  
(ab233796)

**All lanes** : Anti-ATG16L1 antibody [5H9A11] (ab233796) at 1/500 dilution

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

**Lane 2** : ATG16L1 knockout THP-1 cell lysate

**Lane 3** : Wild type HeLa cell lysate

**Lane 4** : ATG16L1 knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

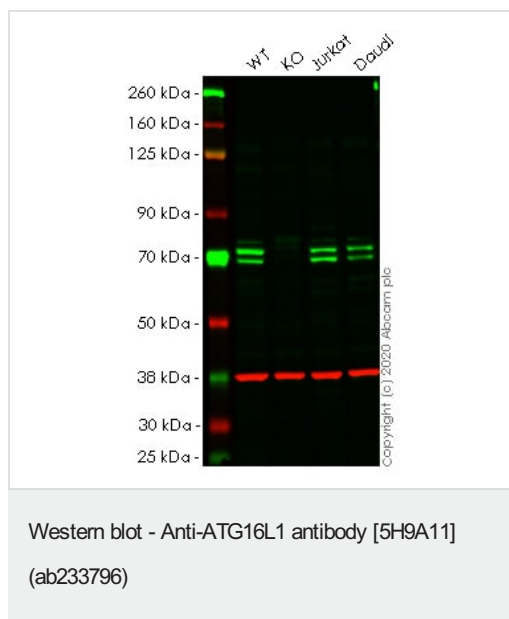
Performed under reducing conditions.

**Predicted band size:** 68 kDa

**Observed band size:** 68,70 kDa

False colour image of Western blot: Anti-ATG16L1 antibody [5H9A11] staining at 1/500 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] ([ab181602](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab233796 was shown to bind specifically to ATG16L1. A band was observed at 68/70 kDa in wild-type THP-1 cell lysates with no signal observed at this size in ATG16L1 knockout cell line [ab277834](#) (knockout cell lysate [ab278184](#)). To generate this image, wild-type and ATG16L1 knockout THP-1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye® 680RD)

preabsorbed ([ab216777](#)) at 1/20000 dilution.



**All lanes :** Anti-ATG16L1 antibody [5H9A11] (ab233796) at 1/1000 dilution

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

**Lane 2 :** ATG16L1 knockout HeLa cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** Daudi cell lysate

Lysates/proteins at 20 µg per lane.

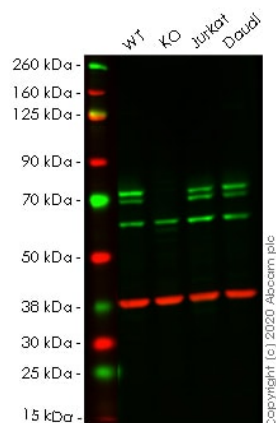
Performed under reducing conditions.

**Predicted band size:** 68 kDa

**Observed band size:** 68 kDa

**Lanes 1- 4:** Merged signal (red and green). Green - ab233796 observed at 68 kDa. Red - Anti-GAPDH antibody[EPR16891] - Loading Control ([ab181602](#)) observed at 37 kDa.

ab233796 was shown to react with ATG16L1 in wild-type HeLa cells in western blot. Loss of signal was observed when knockout cell line [ab265263](#) (knockout cell lysate [ab256842](#)) was used. Wild-type HeLa and ATG16L1 knockout 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. ab233796 and Anti-GAPDH antibody[EPR16891] - Loading Control ([ab181602](#)) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye®800CW) preadsorbed ([ab216772](#)) and Goat Anti-Rabbit IgG H&L (IRDye®680RD) preadsorbed ([ab216777](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ATG16L1 antibody [5H9A11]  
(ab233796)

**All lanes :** Anti-ATG16L1 antibody [5H9A11] (ab233796) at 1/500 dilution

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

**Lane 2 :** ATG16L1 knockout HeLa cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** Daudi cell lysate

Lysates/proteins at 20 µg per lane.

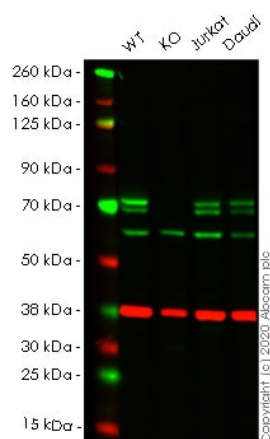
Performed under reducing conditions.

**Predicted band size:** 68 kDa

**Observed band size:** 68,72 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab233796 observed at 68 and 72 kDa. Red - loading control [ab181602](#) observed at 37 kDa.

ab233796 Anti-ATG16L1 antibody [5H9A11] was shown to specifically react with ATG16L1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab261773](#) (knockout cell lysate [ab256844](#)) was used. Wild-type and ATG16L1 knockout samples were subjected to SDS-PAGE. ab233796 and Anti-GAPDH antibody[EPR16891] - Loading Control ([ab181602](#)) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ([ab216772](#)) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ([ab216777](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ATG16L1 antibody [5H9A11]  
(ab233796)

**All lanes :** Anti-ATG16L1 antibody [5H9A11] (ab233796) at 1/500 dilution

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

**Lane 2 :** ATG16L1 knockout HeLa cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** Daudi cell lysate

Lysates/proteins at 20 µg per lane.

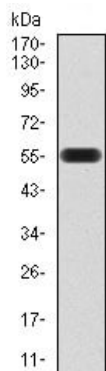
Performed under reducing conditions.

**Predicted band size:** 68 kDa

**Observed band size:** 68,72 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab233796 observed at 68 and 72 kDa. Red - loading control **ab181602** observed at 37 kDa.

ab233796 Anti-ATG16L1 antibody [5H9A11] was shown to specifically react with ATG16L1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab261772** (knockout cell lysate **ab256843**) was used. Wild-type and ATG16L1 knockout samples were subjected to SDS-PAGE. ab233796 and Anti-GAPDH antibody[EPR16891] - Loading Control (**ab181602**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

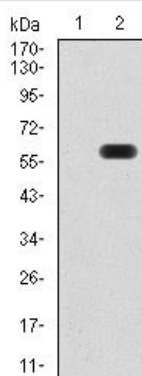


Western blot - Anti-ATG16L1 antibody [5H9A11]  
(ab233796)

Anti-ATG16L1 antibody [5H9A11] (ab233796) at 1/500 dilution +  
Recombinant human ATG16L1 (aa 11-257) protein

**Predicted band size:** 68 kDa

Expected MW is 56 kDa.



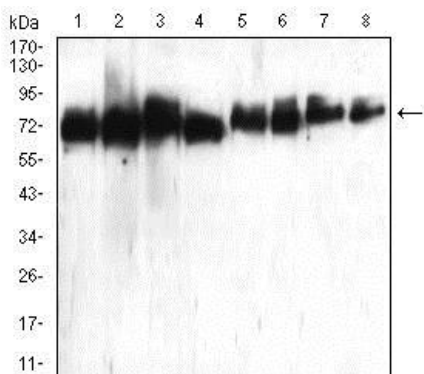
Western blot - Anti-ATG16L1 antibody [5H9A11]  
(ab233796)

**All lanes :** Anti-ATG16L1 antibody [5H9A11] (ab233796) at 1/500  
dilution

**Lane 1 :** Untransfected HEK-293 (human epithelial cell line from  
embryonic kidney) cell lysate

**Lane 2 :** ATG16L1 (aa 11-257)-hlgG-Fc-transfected HEK-293 cell  
lysate

**Predicted band size:** 68 kDa



Western blot - Anti-ATG16L1 antibody [5H9A11]  
(ab233796)

**All lanes :** Anti-ATG16L1 antibody [5H9A11] (ab233796) at 1/500  
dilution

**Lane 1 :** HeLa (human epithelial cell line from cervix  
adenocarcinoma) cell lysate

**Lane 2 :** Raji (human Burkitt's lymphoma cell line) cell lysate

**Lane 3 :** PANC-1 (human pancreatic epithelial carcinoma cell line)  
cell lysate

**Lane 4 :** Jurkat (human T cell leukemia cell line from peripheral  
blood) cell lysate

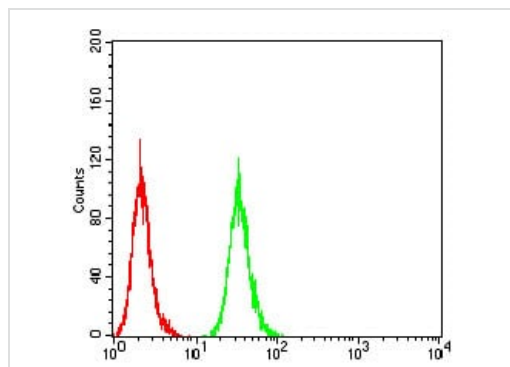
**Lane 5 :** PC-12 (rat adrenal gland pheochromocytoma cell line) cell  
lysate

**Lane 6 :** HepG2 (human liver hepatocellular carcinoma cell line) cell  
lysate

**Lane 7 :** HEK-293 (human epithelial cell line from embryonic  
kidney) cell lysate

**Lane 8 :** NIH/3T3 (mouse embryo fibroblast cell line) cell lysate

**Predicted band size:** 68 kDa



Flow Cytometry - Anti-ATG16L1 antibody [5H9A11]  
(ab233796)

Flow cytometric analysis of HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling ATG16L1 with ab233796 at 1/200 dilution (green) compared with a negative control (red).

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

#### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

#### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors