


Anti-ATG3 antibody [EPR4802] ab108282

敲除验证 重组 RabMAb

5 References 4 图像

概述

产品名称	Anti-ATG3抗体[EPR4802]
描述	兔单克隆抗体[EPR4802] to ATG3
宿主	Rabbit
经测试应用	适用于: WB, Flow Cyt (Intra) 不适用于: ICC/IF or IHC-P
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HEK293T, K562, HeLa or Jurkat cell lysates. Flow Cyt (intra): Permeabilized Jurkat cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR4802

同种型

IgG

应用

The Abpromise guarantee

**Abpromise™**承诺保证使用ab108282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		1/1000 - 1/10000. Detects a band of approximately 40 kDa (predicted molecular weight: 36 kDa).
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

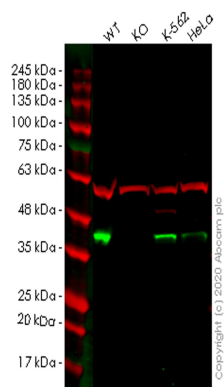
应用说明

Is unsuitable for ICC/IF or IHC-P.

靶标

功能	E2-like enzyme involved in autophagy and mitochondrial homeostasis. Catalyzes the conjugation of ATG8-like proteins (GABARAP, GABARAPL1, GABARAPL2 or MAP1LC3A) to phosphatidylethanolamine (PE). PE-conjugation to ATG8-like proteins is essential for autophagy. Preferred substrate is MAP1LC3A. Also acts as an autocatalytic E2-like enzyme, catalyzing the conjugation of ATG12 to itself, ATG12 conjugation to ATG3 playing a role in mitochondrial homeostasis but not in autophagy. ATG7 (E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with ATG3.
组织特异性	Widely expressed, with a highest expression in heart, skeletal muscle, kidney, liver and placenta.
序列相似性	Belongs to the ATG3 family.
翻译后修饰	Conjugated to ATG12 at Lys-243. ATG12-conjugation plays a role in regulation of mitochondrial homeostasis and cell death, while it is not involved in PE-conjugation to ATG8-like proteins and autophagy.
细胞定位	Cytoplasm.

图片



Western blot - Anti-ATG3 antibody [EPR4802]  
(ab108282)

**All lanes** : Anti-ATG3 antibody [EPR4802] (ab108282) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : ATG3 knockout HEK293T cell lysate

**Lane 3** : K-562 cell lysate

**Lane 4** : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

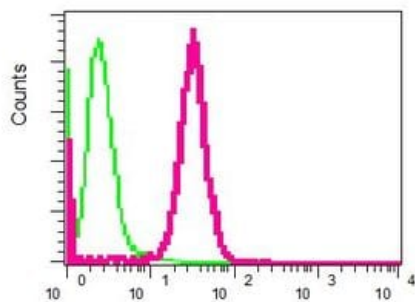
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 36 kDa

**Observed band size:** 40 kDa

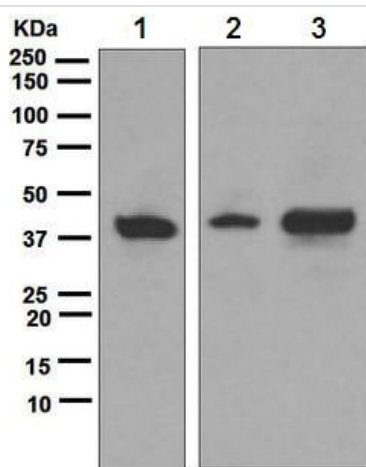
**Lanes 1-4:** Merged signal (red and green). Green - ab108282 observed at 40 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

ab108282 Anti-ATG3 antibody [EPR4802] was shown to specifically react with ATG3 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line [ab266707](#) (knockout cell lysate [ab257363](#)) was used. Wild-type and ATG3 knockout samples were subjected to SDS-PAGE. ab108282 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-ATG3 antibody  
[EPR4802] (ab108282)

Intracellular flow cytometric analysis of permeabilized Jurkat cells using ab108282 at 1/10 (red) or a rabbit IgG (negative) (green).



Western blot - Anti-ATG3 antibody [EPR4802]  
(ab108282)

**All lanes** : Anti-ATG3 antibody [EPR4802] (ab108282) at 1/1000 dilution

**Lane 1** : K562 cell lysate

**Lane 2** : HeLa cell lysate

**Lane 3** : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 36 kDa

**Observed band size:** 40 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-ATG3 antibody [EPR4802] (ab108282)

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