abcam

Product datasheet

Human ATG16L1 knockout THP-1 cell lysate ab278184

2 图像

概述

产品名称	人ATG16L1 knockout THP-1 cell裂解物
产品概述	Knockout cell lysate achieved by CRISPR/Cas9. **Treatments:** Human ATG16L1 knockout THP-1 cell lysate - Untreated Human wild-type THP-1 cell lysate - Untreated Human ATG16L1 knockout THP-1 cell lysate - PMA (20 ng/mL, 24h) Human wild-type THP-1 cell lysate - PMA (20 ng/mL, 24h)
Parental Cell Line	THP-1
Organism	Human
Passage number	<20
Knockout validation	Western Blot (WB)
说明	**Lysate preparation:** Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found **here**. Please refer to our lysis protocol for further details on how our lysates are prepared. **User storage instructions:** Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage. Access thousands of knockout cell lysates, generated from commonly used cancer cell lines. **See here for more information on knockout cell lysates.** Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses. This product is subject to limited use licenses from The Broad Institute and ERS Genomics Limited, and is developed with patented technology. For full details of the limited use licenses and relevant patents please refer to our **limited use license** and **patent pages**.
经测试应用	**适用于:** WB

性能

存放说明	Store at -80°C. Please refer to protocols.

组件	1 kit
ab280185 - Human ATG16L1 knockout THP-1 cell lysate	1 x 100µg
ab281882 - Human ATG16L1 knockout THP-1 cell lysate - PMA treated	1 x 100µg
ab282895 - Human wild-type THP-1 cell lysate	1 x 100µg
ab281889 - Human wild-type THP-1 cell lysate - PMA treated	1 x 100µg

Cell type	acute monocytic leukemia
Disease	Acute Monocytic Leukemia
Gender	Male

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 WIPI2. 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.

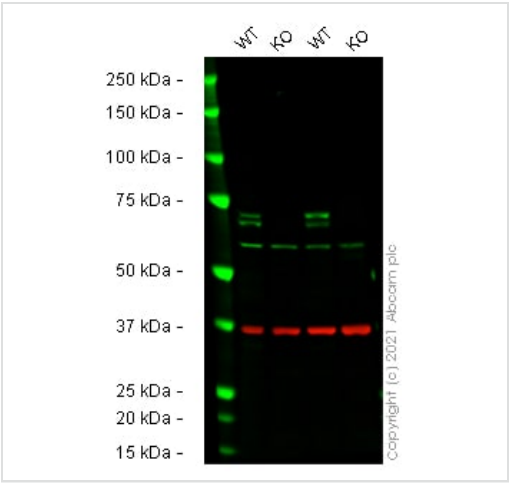
应用

The Abpromise guarantee Abpromise™承诺保证使用ab278184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。

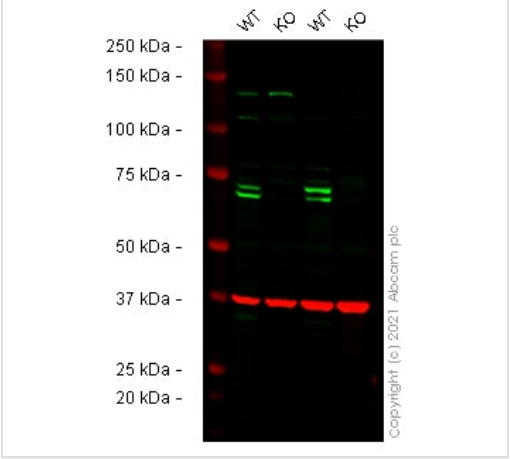
应用	Ab评论	说明
WB		Use at an assay dependent concentration.

图片



Western blot - Human ATG16L1 knockout THP-1 cell lysate (ab278184)

Lane 1: Wild-type THP-1 cell lysate 20 µg
Lane 2: ATG16L1 knockout THP-1 cell lysate 20 µg
Lane 3: Wild type HeLa cell lysate 20 µg
Lane 4: ATG16L1 knockout HeLa cell lysate 20 µg
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.



Western blot - Human ATG16L1 knockout THP-1 cell lysate (ab278184)

Lane 1: Wild-type THP-1 cell lysate 20 µg
Lane 2: ATG16L1 knockout THP-1 cell lysate 20 µg
Lane 3: Wild type HeLa cell lysate 20 µg
Lane 4: ATG16L1 knockout HeLa cell lysate 20 µg
False colour image of Western blot: Anti-ATG16L1 antibody [EPR15638] - N-terminal staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab187671** 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 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) 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-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD)

preabsorbed (**ab216776**) at 1/20000 dilution.

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