

Anti-Beclin 1 antibody [OT4A10] ab118148

敲除 验证

1 [References](#) **3** [图像](#)

概述

产品名称	Anti-Beclin 1抗体[OT4A10]
描述	小鼠单克隆抗体[OT4A10] to Beclin 1
宿主	Mouse
经测试应用	适用于: WB 不适用于: Flow Cyt or ICC/IF
种属反应性	与反应: Human
免疫原	Recombinant full length protein corresponding to Human Beclin 1. Produced in HEK-293T cells. NP_003757 Database link: Q14457
阳性对照	WB: Beclin 1 transfected HEK-293T cell lysate; HeLa cell lysate.
常规说明	The clone number has been updated from 4A10 to OT4A10, both clone numbers name the same clone. 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. 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&As

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. Avoid freeze / thaw cycle.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA, 50% Glycerol
纯度	Affinity purified

纯化说明	Purified from cell culture supernatant by affinity chromatography
克隆	单克隆
克隆编号	OT4A10
同种型	IgG2a

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab118148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		1/2000. Predicted molecular weight: 52 kDa.

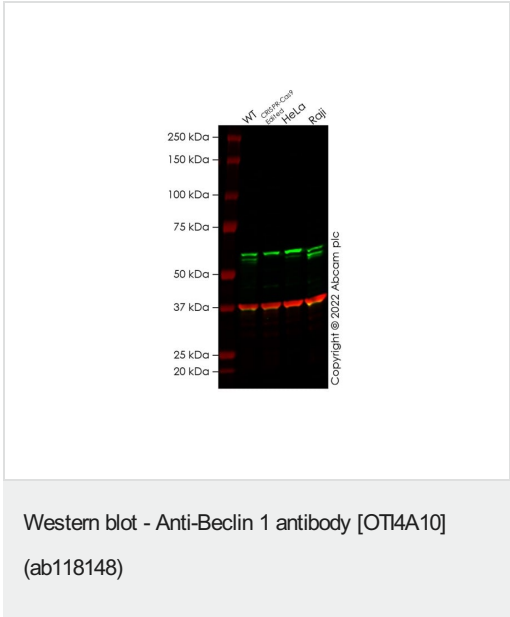
应用说明

Is unsuitable for Flow Cyt or ICC/IF.

靶标

功能	Plays a central role in autophagy (By similarity). May play a role in antiviral host defense. Protects against infection by a neurovirulent strain of Sindbis virus.
组织特异性	Ubiquitous.
序列相似性	Belongs to the beclin family.
细胞定位	Golgi apparatus > trans-Golgi network membrane. Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of cerebellar Purkinje cells.

图片



All lanes : Anti-Beclin 1 antibody [OT4A10] (ab118148) at 1/2000 dilution

Lane 1 : Wild-type Jurkat cell lysate

Lane 2 : BECN1 CRISPR-Cas9 edited Jurkat cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : Raji cell lysate

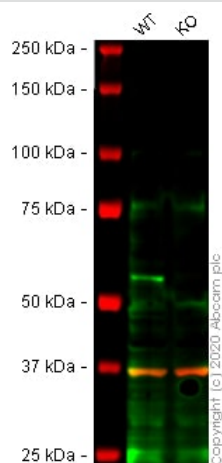
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 52 kDa

Observed band size: 52 kDa

False colour image of Western blot: Anti-Beclin 1 antibody [OT4A10] staining at 1/2000 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] ([ab181602](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab118148 was shown to bind specifically to Beclin 1. A band was observed at 52 kDa in wild-type Jurkat cell lysates with no signal observed at this size in BECN1 CRISPR-Cas9 edited cell line [ab283778](#) (BECN1 CRISPR-Cas9 edited cell lysate [ab283792](#)). The band observed in the CRISPR-Cas9 edited lysate lane above 52 kDa is likely to represent Beclin 1 with an insertion. This has not been investigated further and the functional properties of the gene product have not been determined. To generate this image, wild-type and BECN1 CRISPR-Cas9 edited Jurkat 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-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-Beclin 1 antibody [OT4A10] (ab118148)

All lanes : Anti-Beclin 1 antibody [OT4A10] (ab118148) at 1/1000 dilution

Lane 1 : Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : BECN1 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

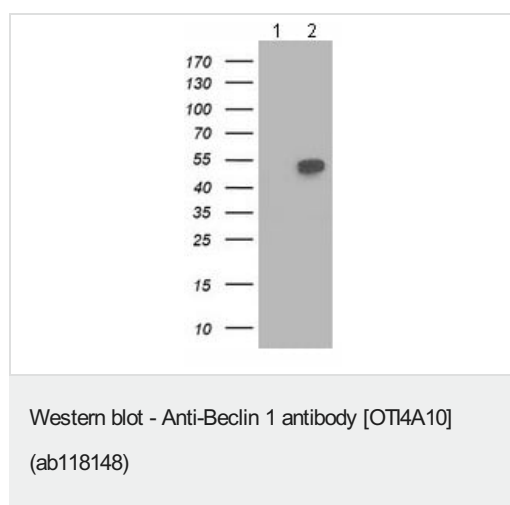
Predicted band size: 52 kDa

Observed band size: 60 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab118148 observed at 60 kDa. Red - loading control, [ab181602](#) (Rabbit Anti-GAPDH antibody [EPR16891]) observed at 37kDa.

ab118148 was shown to react with Beclin 1 in wild-type HeLa cells

in western blot. Loss of signal was observed when BECN1 knockout sample was used. Wild-type HeLa and BECN1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in non-mammalian (TBS-based) blocking solution before incubation with ab118148 and **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) 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 hour at room temperature before imaging.



All lanes : Anti-Becn 1 antibody [OT14A10] (ab118148) at 1/2000 dilution

Lane 1 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) cells transfected with pCMV6-ENTRY control

Lane 2 : HEK-293T cells transfected with pCMV6-ENTRY Becn 1

Lysates/proteins at 5 µg per lane.

Predicted band size: 52 kDa

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