

Product datasheet

Anti-Apg12 antibody [EPR4799] - Autophagosome Marker ab109492

 RabMAb

★★★★★ 1 Abreviews 5 图像

概述

产品名称	Anti-Apg12抗体[EPR4799] - Autophagosome Marker
描述	兔单克隆抗体[EPR4799] to Apg12 - Autophagosome Marker
宿主	Rabbit
经测试应用	适用于: ICC, WB, IP, IHC-P, Flow Cyt
种属反应性	与反应: Human
免疫原	A synthetic peptide corresponding to residues in Human Apg12.
阳性对照	THP1, HepG2, Raji, and Human fetal kidney lysate; Apg12-transfected 293T lysates; Human colon tissue.
常规说明	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.
	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents
	This product is a recombinant rabbit monoclonal antibody.

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. Stable for 12 months at -20°C.
存储溶液	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR4799
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab109492** in the following tested applications.

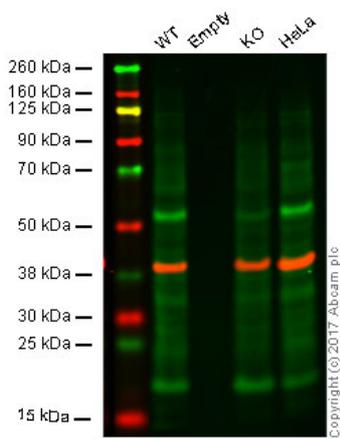
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
ICC		1/100 - 1/250.
WB	★★★★★	1/1000 - 1/10000. Predicted molecular weight: 15 kDa.
IP		1/10 - 1/100.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
Flow Cyt		1/100 - 1/10000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

靶标

功能	Ubiquitin-like protein required for autophagy. Conjugated to ATG3 and ATG5.
组织特异性	Ubiquitous.
序列相似性	Belongs to the ATG12 family.
结构域	Shares weak sequence similarity with ubiquitin family, but contains an 'ubiquitin superfold' and the C-terminal Gly is required for isopeptide linkage.
细胞定位	Cytoplasm.

图片



Western blot - Anti-Apg12 antibody [EPR4799] - Autophagosome Marker (ab109492)

Lane 1: Wild type HAP1 whole cell lysate (20 μ g)

Lane 2: empty knockout HAP1 whole cell lysate (0 μ g)

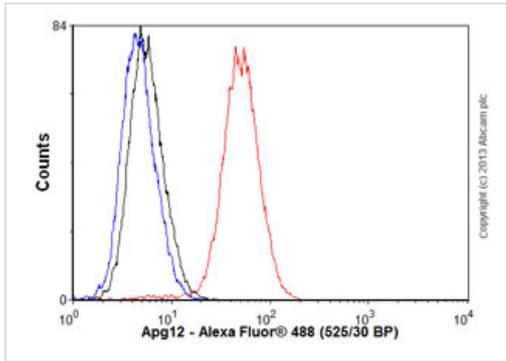
Lane 3: APG12 whole cell lysate (20 μ g)

Lane 4: HeLa whole cell lysate (20 μ g)

Lanes 1 - 4: Merged signal (red and green).

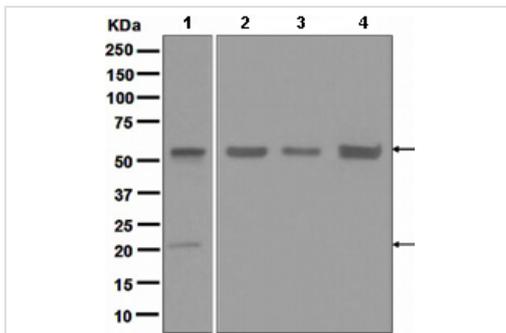
Green - ab109492 observed at 55 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab109492 was shown not to specifically react with APG12 when empty knockout samples were used. Wild-type and empty knockout samples were subjected to SDS-PAGE. Ab109492 and [ab8245](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots were developed 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 1/10000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry - Anti-Apg12 antibody [EPR4799] - Autophagosome Marker (ab109492)

Overlay histogram showing HepG2 cells stained with ab109492 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab109492, 1/10000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HepG2 cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Western blot - Anti-Apg12 antibody [EPR4799] - Autophagosome Marker (ab109492)

All lanes : Anti-Apg12 antibody [EPR4799] - Autophagosome Marker (ab109492) at 1/1000 dilution

Lane 1 : THP1 lysate

Lane 2 : HepG2 lysate

Lane 3 : Raji lysate

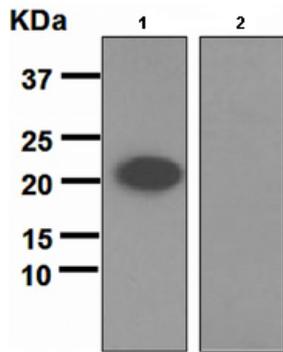
Lane 4 : Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 15 kDa

Lower band shows Apg12.

Upper band shows Apg12-ATG5 conjugate.



Western blot - Anti-Apg12 antibody [EPR4799] - Autophagosome Marker (ab109492)

All lanes : Anti-Apg12 antibody [EPR4799] - Autophagosome Marker (ab109492) at 1/1000 dilution

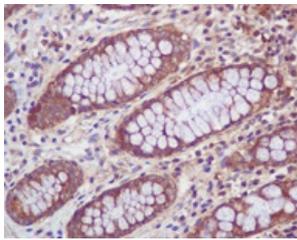
Lane 1 : Apg12-transfected 293T lysate

Lane 2 : Non-transfected 293T lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 15 kDa

Observed band size: 22 kDa



ab109492 at 1/50 dilution staining Apg12 in paraffin embedded Human colon tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apg12 antibody [EPR4799] - Autophagosome Marker (ab109492)

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