

### Anti-Flotillin 1 antibody [EPR6041] ab133497

敲除验证
重组
RabMAb

★★★★★
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#### 概述

<b>产品名称</b>	Anti-Flotillin 1 抗体[EPR6041]
<b>描述</b>	兔单克隆抗体[EPR6041] to Flotillin 1
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> Flow Cyt (Intra), WB, IHC-P, IP, ICC/IF
<b>种属反应性</b>	<b>与反应:</b> Mouse, Rat, Human
<b>免疫原</b>	Synthetic peptide within Human Flotillin 1 aa 400-500 (C terminal). The exact sequence is proprietary. Database link: <a href="#">O75955</a>
<b>阳性对照</b>	WB: HEK293T, HAP1, K562, A431, Jurkat, and HeLa cell lysates; Mouse brain and kidney lysates; Rat kidney lysate. IP: K562 cell lysate. IHC-P: Human cervical carcinoma tissue. Flow Cyt (intra): Jurkat cells. ICC/IF: Jurkat cells.
<b>常规说明</b>	<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

<b>形式</b>	Liquid
<b>存放说明</b>	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.
<b>存储溶液</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
<b>纯度</b>	Protein A purified
<b>克隆</b>	单克隆

克隆编号 EPR6041

同种型 IgG

## 应用

**The Abpromise guarantee** **Abpromise™** 承诺保证使用 ab133497 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
Flow Cyt (Intra)		1/50.
WB	★★★★★ (4)	1/10000 - 1/50000. Detects a band of approximately 48 kDa (predicted molecular weight: 47 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> .
IP		1/10 - 1/100.
ICC/IF		1/500.

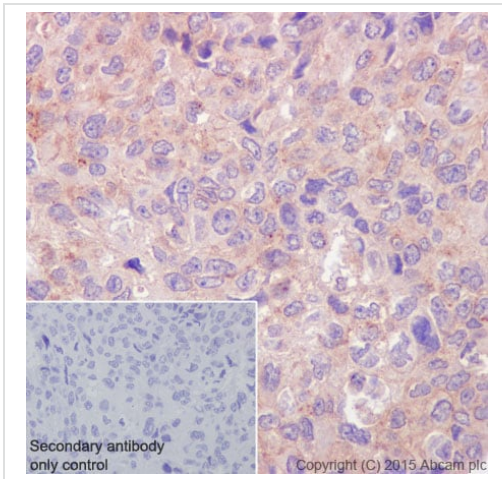
## 靶标

**功能** May act as a scaffolding protein within caveolar membranes, functionally participating in formation of caveolae or caveolae-like vesicles.

**序列相似性** Belongs to the band 7/mec-2 family. Flotillin subfamily.

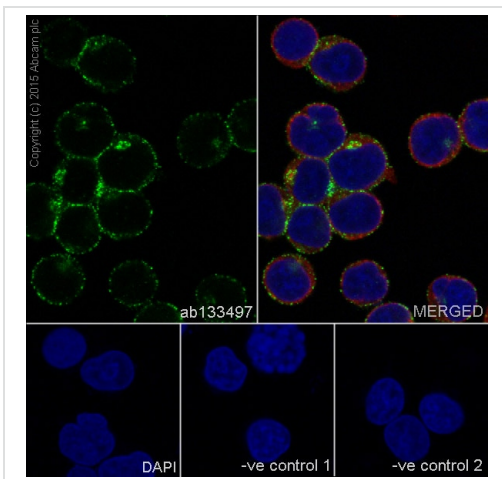
**细胞定位** Cell membrane. Membrane > caveola. Melanosome. Endosome. Membrane-associated protein of caveolae. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

## 图片



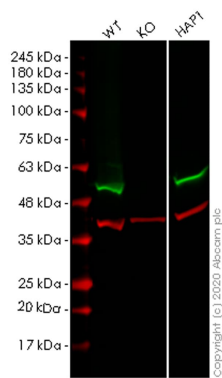
Immunohistochemical staining of paraffin embedded human cervical carcinoma with purified ab133497 at a working dilution of 1/100. The secondary antibody used is HRP goat anti-rabbit IgG H&L ([ab97051](#)) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Flotillin 1 antibody [EPR6041] (ab133497)



Immunofluorescence staining of Jurkat cells with purified ab133497 at a working dilution of 1/500, counter-stained with DAPI. The secondary antibody was Alexa Fluor<sup>®</sup> 488 goat anti-rabbit ([ab150077](#)), used at a dilution of 1/1000. [ab7291](#), a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with [ab150120](#) (Alexa Fluor<sup>®</sup> 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab133497 was used at a dilution of 1/500 followed by an Alexa Fluor<sup>®</sup> 594 goat anti-mouse antibody ([ab150120](#)) at a dilution of 1/500. For negative control 2, [ab7291](#) (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor<sup>®</sup> 488 goat anti-rabbit antibody ([ab150077](#)) at a dilution of 1/400.

Immunocytochemistry/ Immunofluorescence - Anti-Flotillin 1 antibody [EPR6041] (ab133497)



Western blot - Anti-Flotillin 1 antibody [EPR6041] (ab133497)

**All lanes** : Anti-Flotillin 1 antibody [EPR6041] (ab133497) at 1/1000 dilution

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

**Lane 2** : FLOT1 knockout HEK293T cell lysate

**Lane 3** : HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

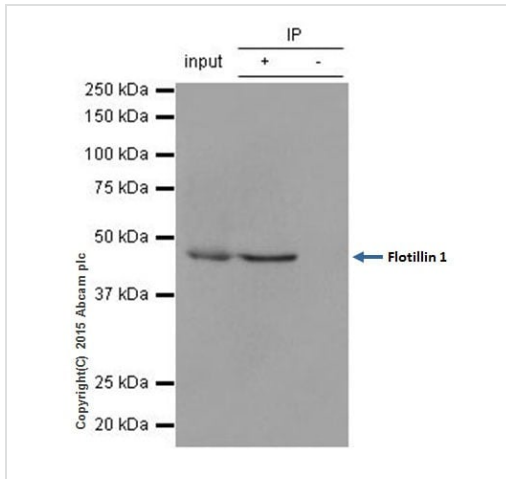
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 47 kDa

**Observed band size:** 50 kDa

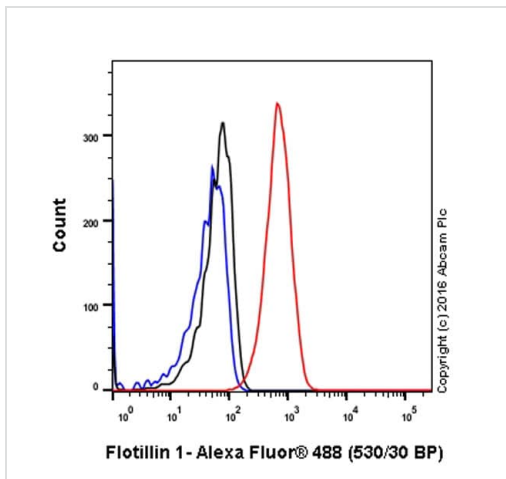
**Lanes 1-3:** Merged signal (red and green). Green - ab133497 observed at 50 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab133497 Anti-Flotillin 1 antibody [EPR6041] was shown to specifically react with Flotillin 1 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab267276** (knockout cell lysate **ab257109**) was used. Wild-type and Flotillin 1 knockout samples were subjected to SDS-PAGE. ab133497 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) 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.



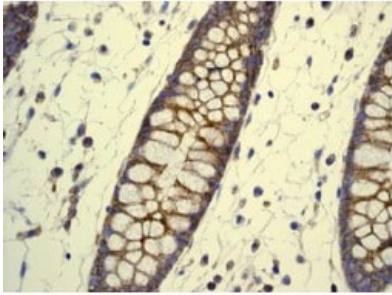
Immunoprecipitation - Anti-Flotillin 1 antibody  
[EPR6041] (ab133497)

ab133497 (purified) at 1/60 immunoprecipitating Flotillin 1 in 10  $\mu$ g K562 (Lanes 1 and 2, observed at 48 kDa). Lane 3 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500). Blocking buffer and concentration: 5% NFDm/TBST Dilution buffer and concentration: 5% NFDm/TBST



Flow Cytometry (Intracellular) - Anti-Flotillin 1  
antibody [EPR6041] (ab133497)

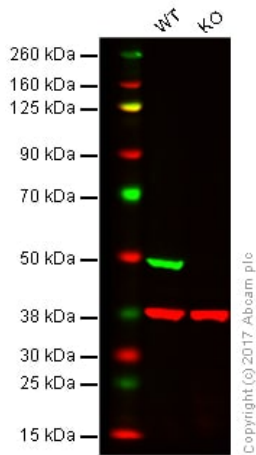
Intracellular Flow Cytometry analysis of Jurkat (human acute T cell leukemia) cells labeling Flotillin 1 with purified ab133497 at 1/50 dilution (10 $\mu$ g/mL) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor<sup>®</sup>488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Flotillin 1 antibody [EPR6041] (ab133497)

Immunohistochemical analysis of paraffin embedded Human colon tissue labelling Flotillin 1 using unpurified ab133497 at a dilution of 1/100.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



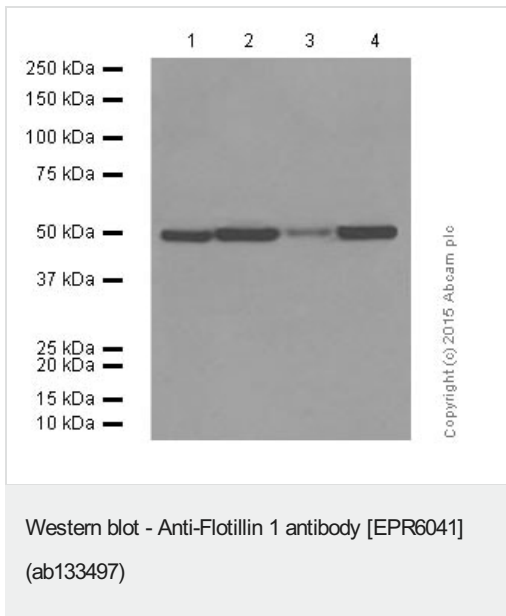
Western blot - Anti-Flotillin 1 antibody [EPR6041] (ab133497)

**Lane 1:** Wild-type HAP1 whole cell lysate (20 µg)

**Lane 2:** Flotillin 1 knockout HAP1 whole cell lysate (20 µg)

**Lanes 1 - 2:** Merged signal (red and green). Green - ab133497 observed at 47 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

ab133497 was shown to specifically react with Flotillin 1 in wild-type HAP1 cells as signal was lost in Flotillin 1 knockout cells. Wild-type and Flotillin 1 knockout samples were subjected to SDS-PAGE. Ab133497 and [ab9484](#) (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/10000 dilution and 1/20000 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 1/20000 dilution for 1 hour at room temperature before imaging.



**All lanes :** Anti-Flotillin 1 antibody [EPR6041] (ab133497) at 1/10000 dilution (purified)

**Lane 1 :** K562 cell lysate

**Lane 2 :** A431 cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** HeLa cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

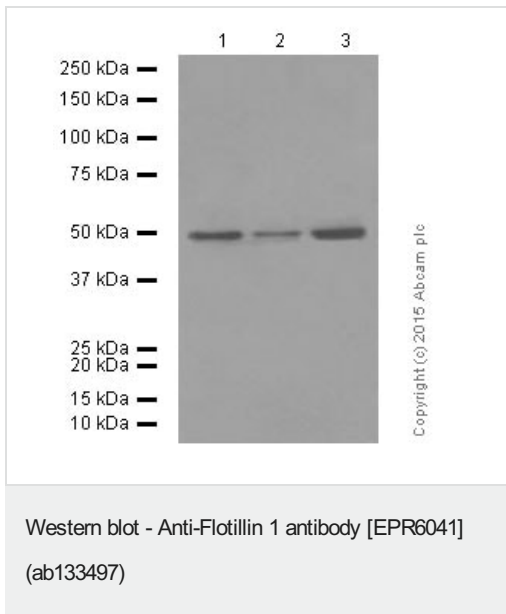
**All lanes :** HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

**Predicted band size:** 47 kDa

**Observed band size:** 48 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



**All lanes :** Anti-Flotillin 1 antibody [EPR6041] (ab133497) at 1/10000 dilution (purified)

**Lane 1 :** mouse brain lysate

**Lane 2 :** mouse kidney lysate

**Lane 3 :** rat kidney lysate

Lysates/proteins at 20 µg per lane.

### Secondary

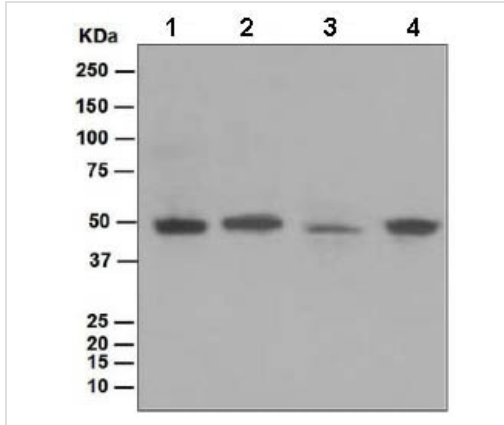
**All lanes :** HRP goat anti-rabbit IgG (H+L)

**Predicted band size:** 47 kDa

**Observed band size:** 48 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-Flotillin 1 antibody [EPR6041] (ab133497)

**All lanes :** Anti-Flotillin 1 antibody [EPR6041] (ab133497) at 1/10000 dilution

**Lane 1 :** K562 cell lysate

**Lane 2 :** A431 cell lysate

**Lane 3 :** Jurkat cell lysate

**Lane 4 :** HeLa cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 47 kDa

**Observed band size:** 48 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-Flotillin 1 antibody [EPR6041] (ab133497)

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