

### Anti-KDEL antibody [EPR12668] ab176333

**重组** RabMAb

★★★★★ **3 Abreviews** **16 References** **9 图像**

#### 概述

产品名称	Anti-KDEL抗体[EPR12668]
描述	兔单克隆抗体[EPR12668] to KDEL
宿主	Rabbit
经测试应用	<b>适用于:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	293T, MCF-7, Raji, HepG2, HeLa, Jurkat, and K562 cell lysates. MCF7 and HeLa cells. Paraffin-embedded Human heart and kidney tissue.
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 <b><a href="#">see here</a></b>.</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 <b><a href="#">RabMAb<sup>®</sup> patents</a></b>.</p>

#### 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 long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 0.06% BSA, 59% PBS</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR12668
同种型	IgG

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab176333 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)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 25 kDa.
IHC-P		1/50 - 1/350. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> .
ICC/IF	★★★★★ (1)	1/100 - 1/250.

## 靶标

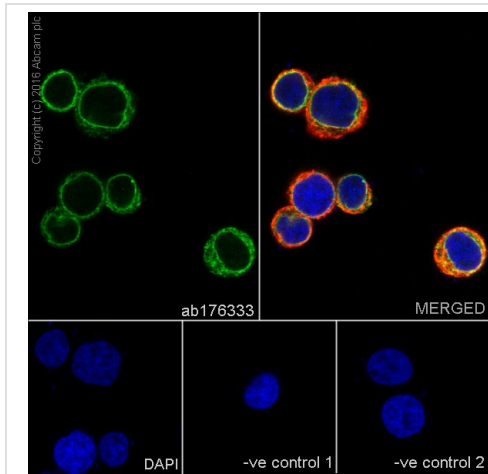
### 相关性

The sequence Lys-Asp-Glu-Leu (KDEL) or a closely related sequence, is present at the carboxy-terminus of soluble endoplasmic reticulum (ER) resident proteins and some membrane proteins. 78 and 94 kDa glucose regulated proteins (GRP 78) and GRP 94 respectively and protein disulfide isomerase (PDI) all share the C-terminal KDEL sequence. The presence of carboxy-terminal KDEL appears to be necessary for ER retention and appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor.

### 细胞定位

Endoplasmic reticulum

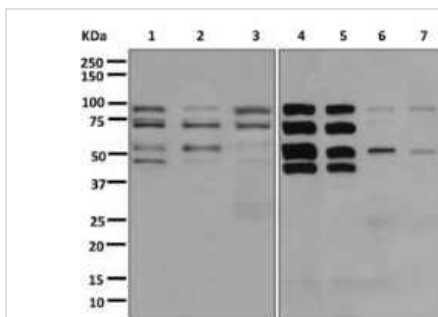
## 图片



Immunocytochemistry/ Immunofluorescence - Anti-KDEL antibody [EPR12668] (ab176333)

Immunocytochemistry/Immunofluorescence analysis of Jurkat cells labelling KDEL with purified ab176333 at 1/200. Cells were fixed with 4% Paraformaldehyde and permeabilized using 0.1% Triton X-100. **ab150077**, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Cells were co-stained with **ab7291**, a mouse anti-tubulin antibody (1/1000) using **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) as the secondary. Nuclei were counterstained with DAPI (blue).

For negative control 1, **ab150120** (Rabbit primary antibody) and anti-mouse secondary antibody were used and for negative control 2, **ab7291** (Mouse primary antibody) and **ab150077** (anti-rabbit secondary antibody) were used.



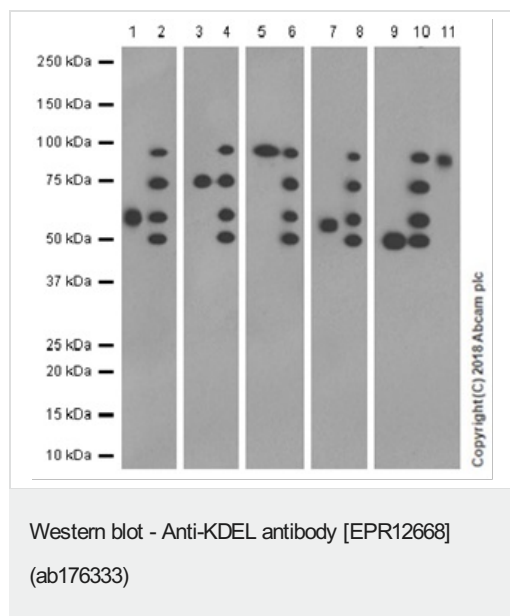
Western blot - Anti-KDEL antibody [EPR12668] (ab176333)

**All lanes** : Anti-KDEL antibody [EPR12668] (ab176333) at 1/1000 dilution

**Lane 1** : 293T cell lysate  
**Lane 2** : MCF7 cell lysate  
**Lane 3** : Raji cell lysate  
**Lane 4** : HepG2 cell lysate  
**Lane 5** : HeLa cell lysate  
**Lane 6** : Jurkat cell lysate  
**Lane 7** : K562 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 25 kDa



**Lane 1 :** Anti-P4HB antibody [EPR9498] ([ab137119](#)) at 1/5000 dilution

**Lanes 2 & 4 & 6 & 8 & 10 :** Anti-KDEL antibody [EPR12668] (ab176333) at 1/5000 dilution

**Lane 3 :** Anti-GRP78 BiP antibody [EPR4040(2)] ([ab108613](#)) at 1/5000 dilution

**Lane 5 :** Anti-GRP94 antibody [EPR3988] ([ab108606](#)) at 1/5000 dilution

**Lane 7 :** Anti-ERp57 antibody [EPR10678(B)] ([ab154191](#)) at 1/5000 dilution

**Lane 9 :** Anti-PDIA6 antibody [EPR10132(B)] ([ab154820](#)) at 1/5000 dilution

**Lane 11 :** Anti-LEPRE1/P3H1 antibody [EPR10193(B)] ([ab154799](#)) at 1/5000 dilution

**All lanes :** HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysate with 5% NFDm/TBST

Lysates/proteins at 20 µg per lane.

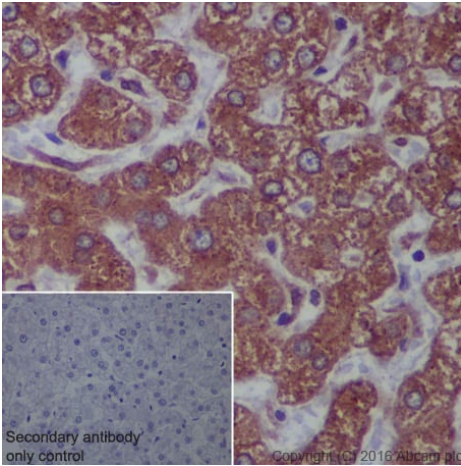
### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/20000 dilution

**Predicted band size:** 25 kDa

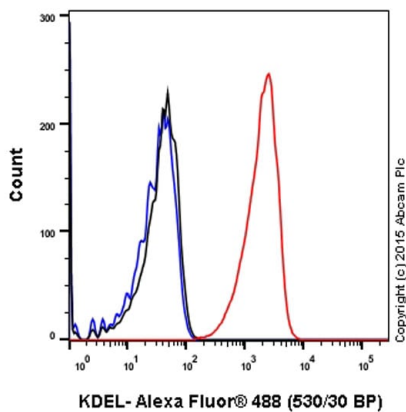
**Exposure time:** 3 minutes

ab176333 detected several bands which have similar MWs with some proteins containing carboxyl terminal KDEL motifs, including P4HB, GRP78 BiP, GRP94, PDIA6 and LEPRE1 (PMID: 25683117, PMID: 19741001, PMID: 22079671, PMID: 28648146, PMID: 22615817). It indicates that ab176333 might recognize these proteins.



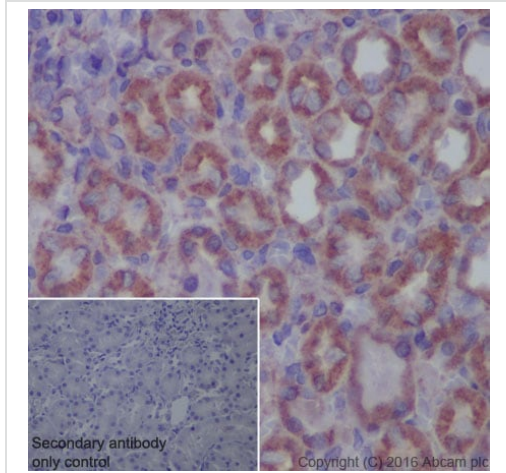
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KDEL antibody [EPR12668] (ab176333)

Immunohistochemical analysis of paraffin-embedded human liver sections labelling KDEL with purified ab176333 at dilution of 1:350. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using EDTA Buffer; pH 9.0. PBS was used instead of the primary antibody as the negative control and is shown in the inset.



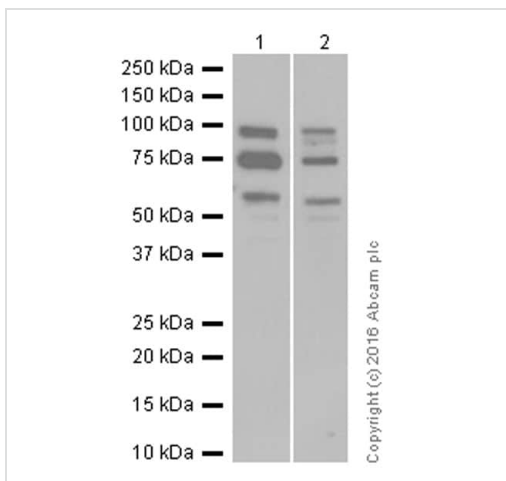
Flow Cytometry (Intracellular) - Anti-KDEL antibody [EPR12668] (ab176333)

Overlay histogram showing 4% paraformaldehyde fixed HeLa cells labelling KDEL (red) with purified ab176333 at dilution of 1/100. The secondary antibody used was Alexa Fluor® 488 goat-anti-rabbit IgG at dilution of 1/2000. A non-specific IgG antibody (rabbit monoclonal) was used as isotype control (black). The blue line shows cells without incubation with primary antibody and secondary antibody.



Immunohistochemical analysis of paraffin-embedded rat kidney sections labelling KDEL with purified ab176333 at dilution of 1:350. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using 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-KDEL antibody [EPR12668] (ab176333)



Western blot - Anti-KDEL antibody [EPR12668] (ab176333)

**All lanes** : Anti-KDEL antibody [EPR12668] (ab176333) at 1/10000 dilution

**Lane 1** : Raw264.7 whole cell lysate

**Lane 2** : C6 whole cell lysate

Lysates/proteins at 20 µg per lane.

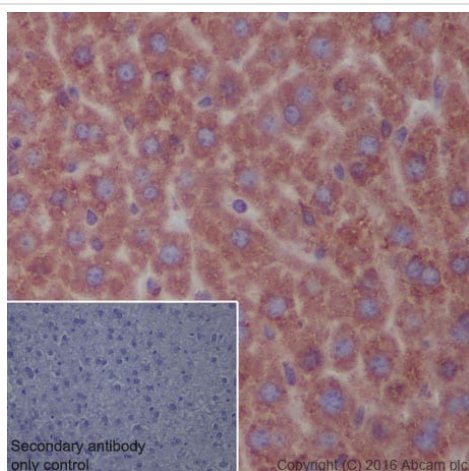
#### Secondary

**All lanes** : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 25 kDa

**Observed band size** : 94,78,57,48

Blocking/Diluting buffer 5% NFDM/TBST



Immunohistochemical analysis of paraffin-embedded mouse liver sections labelling KDEL with purified ab176333 at dilution of 1:350. The secondary antibody used was **ab97051**; a goat anti-rabbit IgG H&L (HRP) at dilution of 1/500. The sample was counterstained with hematoxylin. Antigen retrieval was performed using 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-KDEL antibody [EPR12668] (ab176333)

#### 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-KDEL antibody [EPR12668] (ab176333)

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