

### Anti-Cytokeratin 15 antibody [EPR1614Y] ab52816

敲除验证
重组
RabMAb

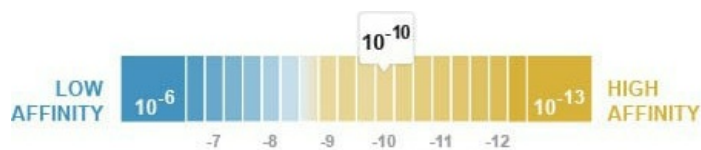
★★★★★
[2 Abreviews](#)
[51 References](#)
[10 图像](#)

#### 概述

<b>产品名称</b>	Anti-Cytokeratin 15抗体[EPR1614Y]
<b>描述</b>	兔单克隆抗体[EPR1614Y] to Cytokeratin 15
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> ICC/IF, Flow Cyt (Intra), WB, IHC-P <b>不适用于:</b> IP
<b>种属反应性</b>	<b>与反应:</b> Mouse, Human
<b>免疫原</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>阳性对照</b>	WB: Mouse skin tissue lysates; A-431 cell lysate. IHC-P: Human squamous cervical carcinoma, normal skin, cervical carcinoma tissue ICC/IF: HeLa cells. Flow Cyt (intra): A-431 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>解离常数 (K<sub>D</sub>)</b>	K <sub>D</sub> = 5.60 x 10 <sup>-10</sup> M



[Learn more about K<sub>D</sub>](#)

**存储溶液** pH: 7.20

Preservative: 0.05% Sodium azide  
Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant

**纯度** Protein A purified  
**克隆** 单克隆  
**克隆编号** EPR1614Y  
**同种型** IgG

## 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab52816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
ICC/IF		1/50 - 1/100.
Flow Cyt (Intra)		1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

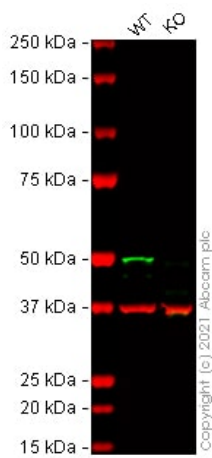
**应用说明** Is unsuitable for IP.

## 靶标

**组织特异性** Expressed in a discontinuous manner in the basal cell layer of adult skin epidermis, but continuously in the basal layer of fetal skin epidermis and nail. Also expressed in the outer root sheath above the hair bulb in hair follicle (at protein level). Expressed homogeneously in all cell layers of the esophagus and exocervix, but detected in the basal cell layer only of oral mucosa, skin and in the basal plus the next two layers of the suprabasal epithelium of the palate.

**序列相似性** Belongs to the intermediate filament family.

## 图片



Western blot - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

**All lanes** : Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816) at 1/10000 dilution

**Lane 1** : Wild-type A431 cell lysate

**Lane 2** : KRT15 knockout A431 cell lysate

Lysates/proteins at 20 µg per lane.

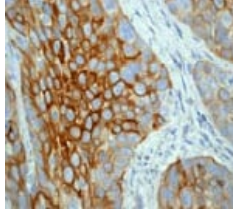
Performed under reducing conditions.

**Predicted band size:** 45 kDa

**Observed band size:** 50 kDa

**Lanes 1 - 2:** Merged signal (red and green). Green - ab52816 observed at 50 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

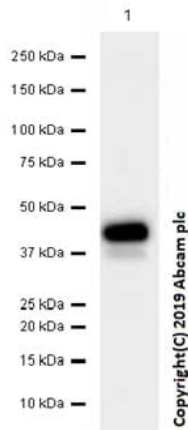
ab52816 was shown to react with Cytokeratin 15 in wild-type A431 cells in Western blot with loss of signal observed in KRT15 knockout cell line **ab263922** (knockout cell lysate **ab262484**). Wild-type A431 and KRT15 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab52816 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 10000 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 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

ab52816 at 1/100 dilution staining Cytokeratin 15 in human squamous cervical carcinoma by Immunohistochemistry, Paraffin embedded tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

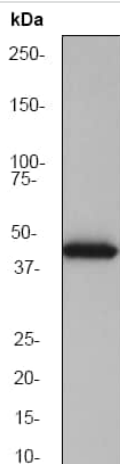
Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816) at 1/100000 dilution + Mouse skin tissue lysates at 20 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 45 kDa

**Observed band size:** 45 kDa



Western blot - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

Blocking buffer and concentration: 5% NFDM/TBST

Diluting buffer and concentration: 5% NFDM /TBST

Exposure time: 5.5 seconds

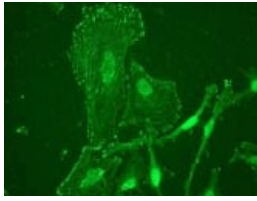
Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816) at 1/10000 dilution + fetal thymus lysate at 10 µg

### Secondary

goat anti-rabbit HRP at 1/2000 dilution

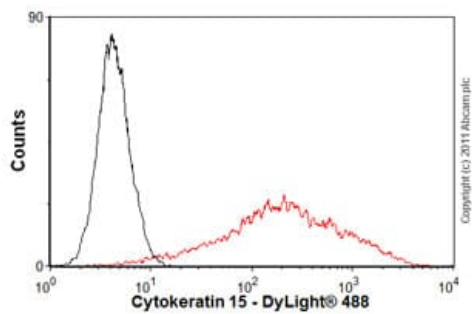
**Predicted band size:** 45 kDa

**Observed band size:** 45 kDa



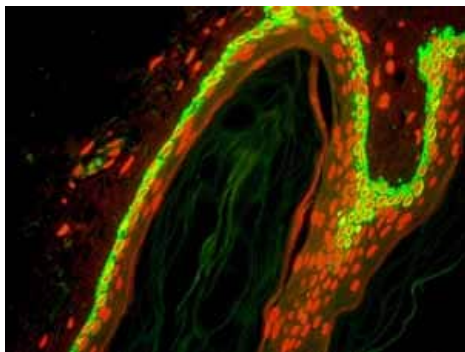
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

ab52816 at 1/50 dilution staining Cytokeratin 15 in HeLa cells by Immunocytochemistry.



Flow Cytometry (Intracellular) - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

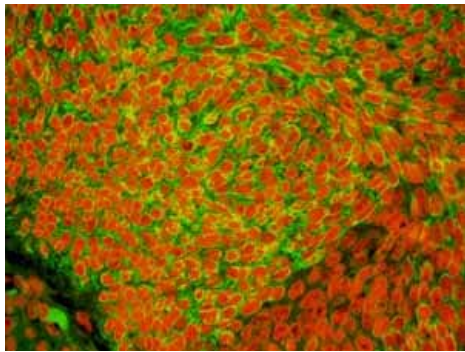
Overlay histogram showing A431 cells stained with ab52816 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Triton for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab52816, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in A431 cells fixed with 4% paraformaldehyde/permeabilized in 0.1% PBS-Triton used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

Fluorescent immunohistochemical analysis of paraffin-embedded human normal skin tissue using ab52816. Green-CK15 red-PI

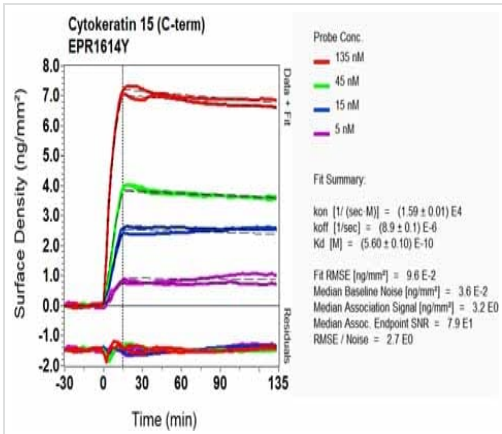
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

Fluorescent immunohistochemical analysis of paraffin-embedded human cervical carcinoma tissue using ab52816. Green-CK15 red-PI.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Ox-RD Scanning - Anti-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

### 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-Cytokeratin 15 antibody [EPR1614Y] (ab52816)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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