

## Product datasheet

# Anti-Cytokeratin 19 antibody [EPR1579Y] ab76539

重组 RabMAb

★★★★★ 1 Abreviews 5 References 9 图像

### 概述

<b>产品名称</b>	Anti-Cytokeratin 19抗体[EPR1579Y]
<b>描述</b>	兔单克隆抗体[EPR1579Y] to Cytokeratin 19
<b>宿主</b>	Rabbit
<b>特异性</b>	In our WB testing this antibody did not recognize mouse Cytokeratin 19, but customers have reported the antibody recognizes the protein in IHC-P with mouse tissue. Thus, we have removed mouse as a "does not react with" species and welcome further feedback from other researchers using this antibody in mouse.
<b>经测试应用</b>	<b>适用于:</b> WB, IP, Flow Cyt, IHC-P, ICC/IF
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	within Human Cytokeratin 19 (N terminal). The exact sequence is proprietary.
<b>阳性对照</b>	WB: T47D, HepG2 or SKBR-3 cell lysate; IHC-P: Human stomach adenocarcinoma tissue. IF/ICC: HCT116 cell line.
<b>常规说明</b>	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 <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>  <b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b>  This product is a recombinant rabbit monoclonal antibody.

### 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 long term. Avoid freeze / thaw cycle.
<b>存储溶液</b>	pH: 7.20 Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol, 0.5% BSA

纯度	Protein A purified
克隆	单克隆
克隆编号	EPR1579Y
同种型	IgG

## 应用

Our [Abpromise guarantee](#) covers the use of **ab76539** 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
WB	★★★★★	1/10000 - 1/50000. Predicted molecular weight: 44 kDa.
IP		1/20.
Flow Cyt		1/20. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/1000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. See <a href="#">IHC antigen retrieval protocols</a> . <b>For unpurified use at 1/100 - 1/250.</b>
ICC/IF		1/100 - 1/250.

## 靶标

**功能** Involved in the organization of myofibers. Together with KRT8, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.

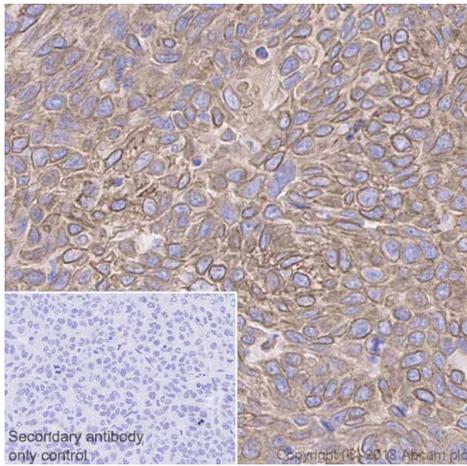
**组织特异性** Expressed in a defined zone of basal keratinocytes in the deep outer root sheath of hair follicles. Also observed in sweat gland and mammary gland ductal and secretory cells, bile ducts, gastrointestinal tract, bladder urothelium, oral epithelia, esophagus, ectocervical epithelium (at protein level). Expressed in epidermal basal cells, in nipple epidermis and a defined region of the hair follicle. Also seen in a subset of vascular wall cells in both the veins and artery of human umbilical cord, and in umbilical cord vascular smooth muscle. Observed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma in structures that contain dystrophin and spectrin.

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

**发展阶段** Present in hair follicles at all stages of development.

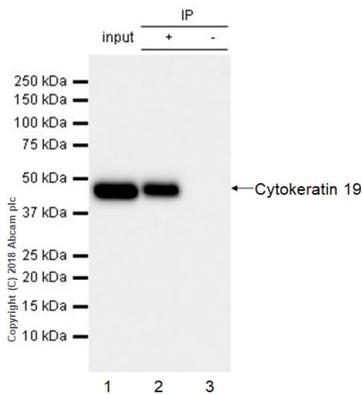
**结构域** This keratin differs from all other IF proteins in lacking the C-terminal tail domain.

## 图片



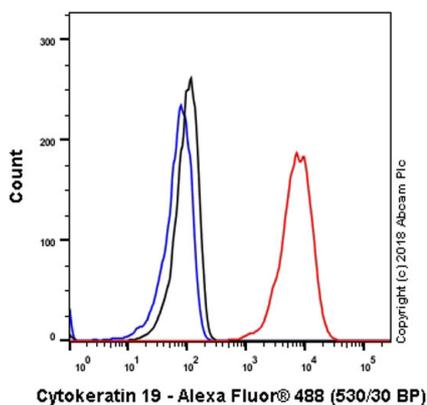
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung cancer tissue sections labeling Cytokeratin 19 with Purified ab76539 at 1:1000 dilution (0.12 µg/ml). Heat mediated antigen retrieval was performed using heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



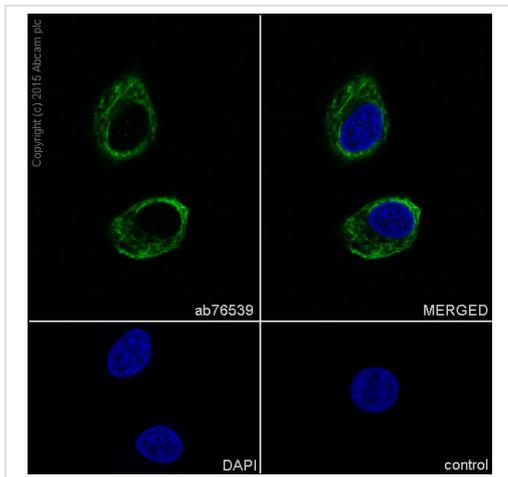
Immunoprecipitation - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

ab76539 (purified) at 1:20 dilution (2ug) immunoprecipitating Cytokeratin 19 in SKBR-3 whole cell lysate.  
 Lane 1 (input): SK-BR-3 (Human breast adenocarcinoma epithelial cell) whole cell lysate 10 µg  
 Lane 2 (+): ab76539 & SKBR-3 whole cell lysate  
 Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab76539 in SKBR-3 whole cell lysate  
 For western blotting, VeriBlot for IP secondary antibody (HRP) ([ab131366](#)) was used as the secondary antibody at 1:1000 dilution. Blocking and diluting buffer: 5% NFDm/TBST.



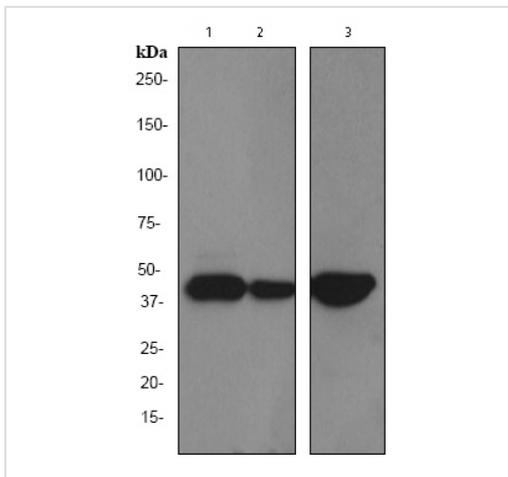
Flow Cytometry - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling Cytokeratin 19 with purified ab76539 at 1:20 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

Immunofluorescence staining of MCF-7 cells with purified ab76539 at a working dilution of 1/500, counter-stained with DAPI. The secondary antibody was an Alexa Fluor<sup>®</sup> 488 conjugated goat anti-rabbit (ab150077), used at a dilution of 1/1000. The cells were fixed in 100% methanol. The negative control is shown in bottom right hand panel - for the negative control, PBS was used instead of the primary antibody.



Western blot - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

**All lanes :** Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539) at 1/10000 dilution (unpurified)

**Lane 1 :** T47D cell lysate

**Lane 2 :** HepG2 cell lysate

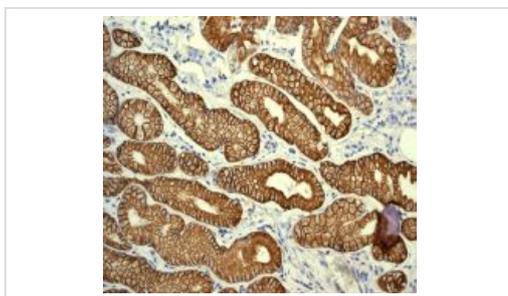
**Lane 3 :** SKBR-3 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

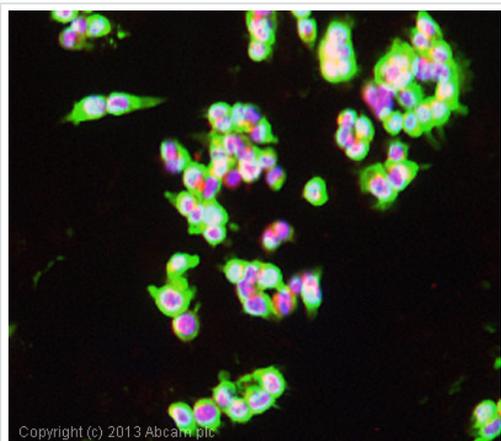
**All lanes :** HRP-labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 44 kDa



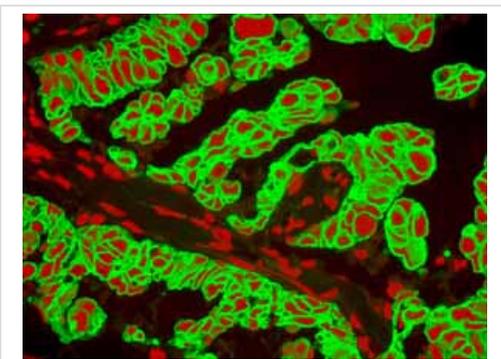
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

Immunohistochemical staining of human stomach adenocarcinoma tissue with ab76539 (unpurified) at 1/100-1/250.



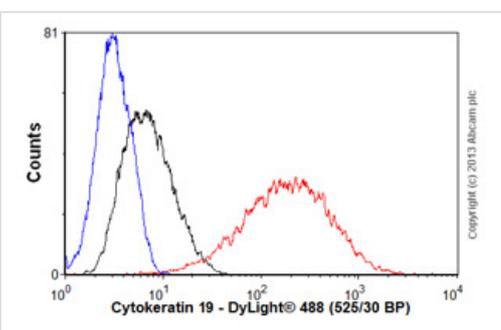
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

ab76539 (unpurified) stained HCT116 cells. The cells were 4% formaldehyde fixed for 10 minutes at room temperature and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1 hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab76539 at 1/200 dilution) overnight at +4°C. The secondary antibody (pseudo-colored green) was Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (ab150081) used at a 1/1000 dilution for 1 hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1 hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43 µM for 1 hour at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

Fluorescent immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ab76539 (unpurified). Green-CK19 red-PI.



Flow Cytometry - Anti-Cytokeratin 19 antibody [EPR1579Y] (ab76539)

Overlay histogram showing MCF7 cells stained with unpurified ab76539 (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 (ab76539, 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. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

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