

# Anti-Cytokeratin 18 antibody [SP69] ab93741

**重组** RabMAb

**7 References**   **12 图像**

### 概述

产品名称	Anti-Cytokeratin 18抗体[SP69]
描述	兔单克隆抗体[SP69] to Cytokeratin 18
宿主	Rabbit
经测试应用	<b>适用于:</b> mlHC, WB, IHC-P, ICC/IF, Flow Cyt (Intra)
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide within Human Cytokeratin 18 aa 400 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: <b><u>P05783</u></b>
阳性对照	IHC-P: Human prostate or breast carcinoma, Human stomach, and Human endometrium tissue; Flow Cyt (Intra): HeLa cells; ICC/IF: HeLa cells. mlHC: Human breast.
常规说明	<b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
纯度	Protein A/G purified
纯化说明	Purified from TCS by protein A/G.
克隆	单克隆
克隆编号	SP69
同种型	IgG

### 应用

The Abpromise guarantee

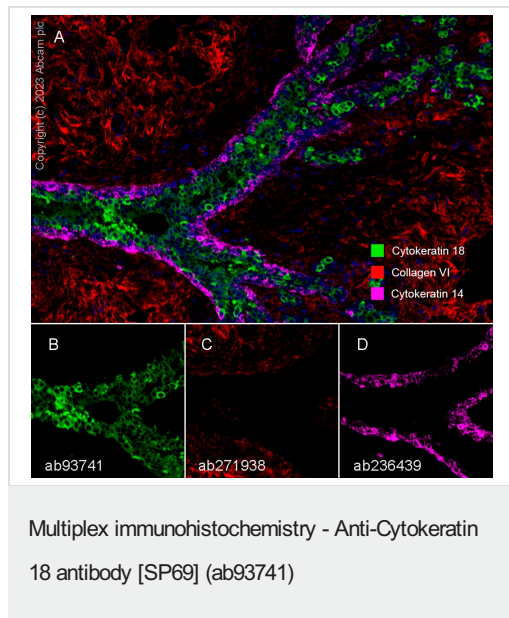
Abpromise™承诺保证使用ab93741于以下的经测试应用

“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
mlHC		Use at an assay dependent concentration.
WB		1/200. Predicted molecular weight: 48 kDa.
IHC-P		1/200. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. Incubate for 30 minutes at RT. Perform heat mediated antigen retrieval before commencing with IHC staining protocol by boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.
ICC/IF		1/1000.
Flow Cyt (Intra)		1/2000.

靶标	
功能	Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.
组织特异性	Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.
疾病相关	Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].
序列相似性	Belongs to the intermediate filament family.
翻译后修饰	Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6. Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7. O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues.
细胞定位	Cytoplasm > perinuclear region.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast labelling Cytokeratin 18 with ab93741 at 1/200 dilution (1.02 µg/mL) (B), Collagen VI with **ab271938** at 1/500 dilution (2.084 µg/ml) (C) and Cytokeratin 14 with **ab236439** at 1/2000 dilution ( 0.519 µg/ml) (D). Opal Polymer HRP Ms + Rb was used as a secondary antibody, and DAPI was used for a nuclear counter stain. Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.

Panel A: merged staining of anti-Cytokeratin 14 (magenta; Opal™690), anti-Cytokeratin 18 (green; Opal™520) and anti-Collagen VI (red; Opal™570) on human breast.

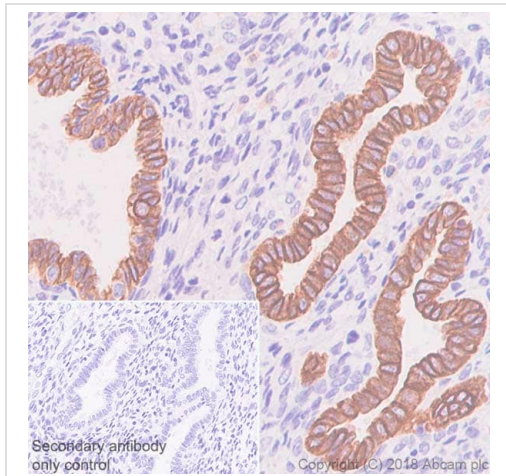
Panel B: anti-Cytokeratin 18 stained on luminal epithelial cells.

Panel C: anti-Collagen VI stained on stroma.

Panel D: anti-Cytokeratin 14 stained on myoepithelial cells.

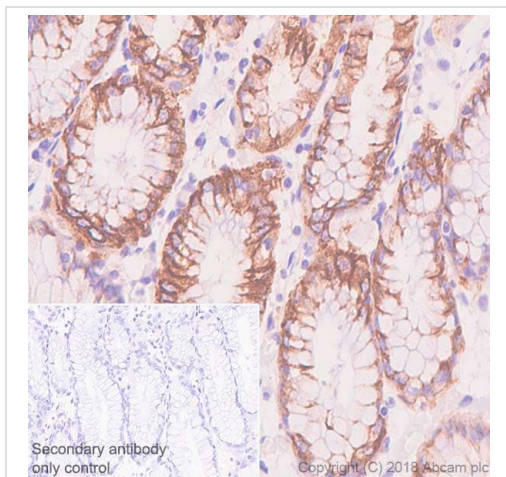
The section was incubated in three rounds of staining: in the order of **ab236439** for 30 mins, ab93741 for 10 mins, and **ab271938** for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



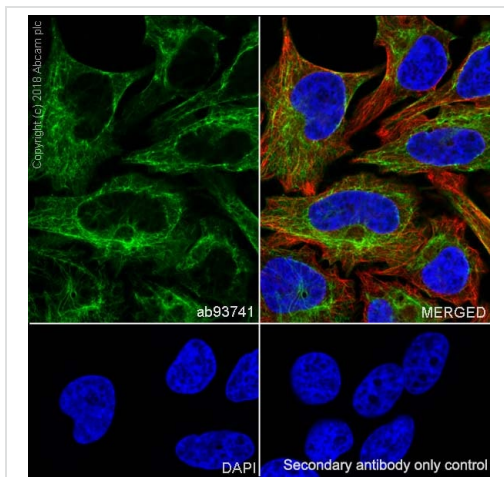
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human endometrium tissue sections labeling Cytokeratin 18 with ab93741 at 1/200 dilution (1.21 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



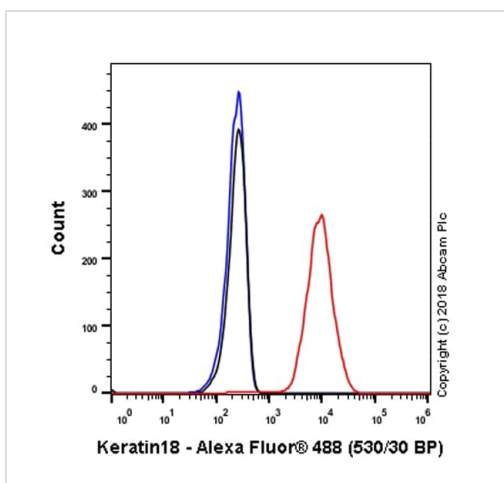
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human stomach tissue sections labeling Cytokeratin 18 with ab93741 at 1/200 dilution (1.21 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



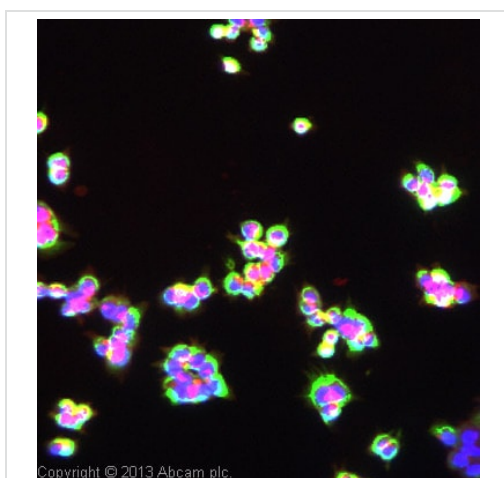
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (human cervix adenocarcinoma epithelial cell) cells labeling Cytokeratin 18 with purified ab93741 at 1:100 (2.4 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

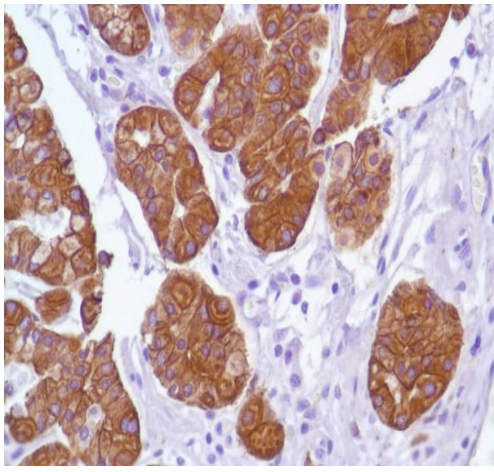
Flow Cytometry analysis of HeLa (human cervix adenocarcinoma epithelial cell) cells labeling Cytokeratin 18 with purified ab93741 at 1:240 dilution (1.00 µg/ml) Red. Cells were fixed with 4% paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG (**ab172730**) / Black. Unlabeled control - Unlabelled cells / Blue.



Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

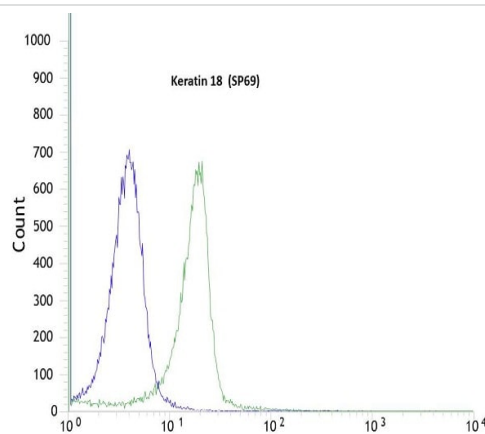
ICC/IF image of ab93741 stained HCT116 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab93741 at 1/500 dilution overnight at +4°C. The secondary antibody (green) was DyLight® 488 Goat anti-Rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.





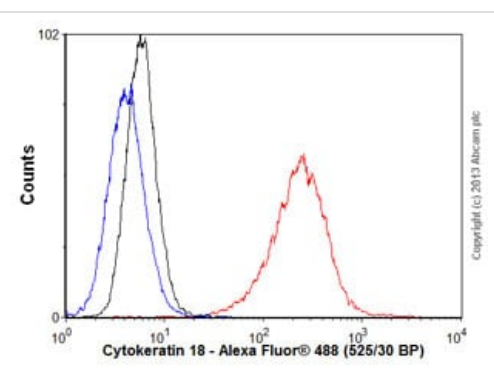
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

Immunohistochemical staining of human stomach with ab93741.



Flow cytometric analysis of rabbit anti-Cytokeratin 18 (SP69) antibody ab93741(1/100) in HeLa cells (green) compared to negative control of rabbit IgG (blue).

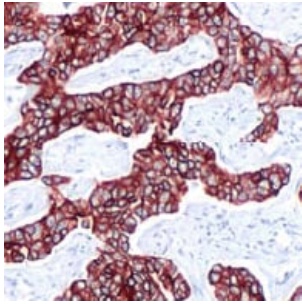
Flow Cytometry (Intracellular) - Anti-Cytokeratin 18 antibody [SP69] (ab93741)



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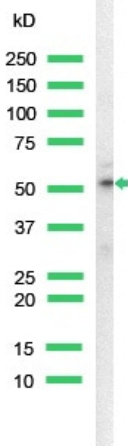
Overlay histogram showing MCF7 cells stained with ab93741 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab93741, 1/1000 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/1x10<sup>6</sup> 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

MCF7 cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

ab93741 at 1/200 dilution staining Cytokeratin 18 in formalin-fixed, paraffin-embedded Human breast carcinoma tissue.



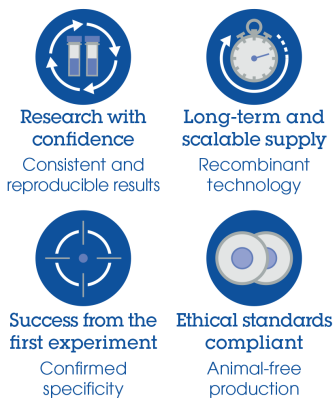
Western blot - Anti-Cytokeratin 18 antibody [SP69] (ab93741)

Anti-Cytokeratin 18 antibody [SP69] (ab93741) at 1/25 dilution + A431 cell lysate

**Predicted band size:** 48 kDa

**Observed band size:** 52 kDa

Why choose a recombinant antibody?



Anti-Cytokeratin 18 antibody [SP69] (ab93741)

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

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