

# FITC Anti-Cytokeratin 18 antibody [DC-10] ab72813

[3 References](#) [3 Images](#)

### Overview

<b>Product name</b>	FITC Anti-Cytokeratin 18 antibody [DC-10]
<b>Description</b>	FITC Mouse monoclonal [DC-10] to Cytokeratin 18
<b>Host species</b>	Mouse
<b>Conjugation</b>	FITC. Ex: 493nm, Em: 528nm
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Flow Cyt (Intra)
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat, Sheep, Hamster, Cow, Dog, Pig
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human Cytokeratin 18. Human breast carcinoma cell line PMC-42
<b>Positive control</b>	ICC/IF: HCT116 cells. Flow Cyt (Intra): HeLa cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.097% Sodium azide Constituent: PBS
<b>Purity</b>	Size exclusion
<b>Purification notes</b>	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	DC-10

## Applications

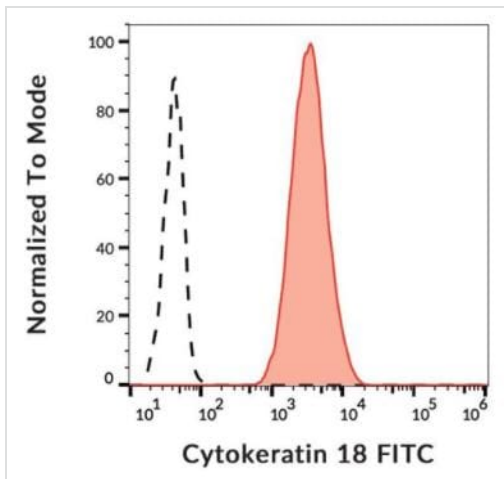
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab72813 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
Flow Cyt (Intra)		Use a concentration of 1 - 5 µg/ml.

## Target

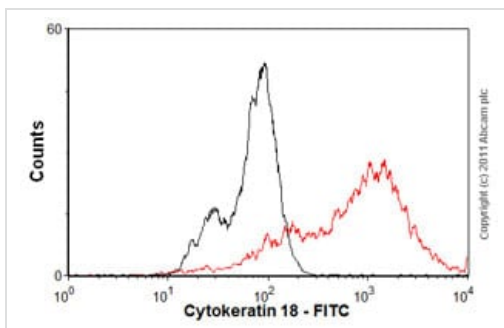
<b>Function</b>	Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.
<b>Tissue specificity</b>	Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.
<b>Involvement in disease</b>	Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].
<b>Sequence similarities</b>	Belongs to the intermediate filament family.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Cytoplasm > perinuclear region.

## Images



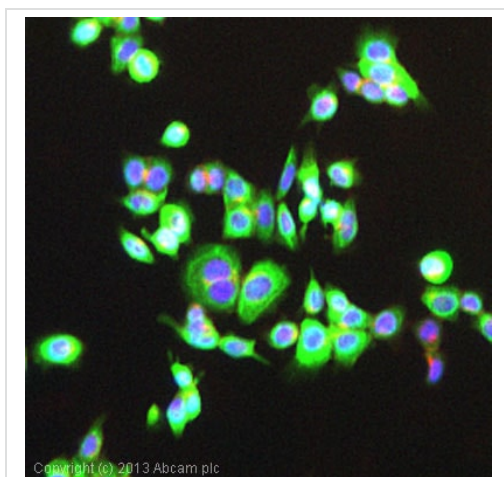
Flow Cytometry (Intracellular) - FITC Anti-Cytokeratin 18 antibody [DC-10] (ab72813)

Flow cytometry analysis (intracellular staining) of HeLa cells with ab72813 at 5 µg/ml.



Flow Cytometry (Intracellular) - FITC Anti-Cytokeratin 18 antibody [DC-10] (ab72813)

Overlay histogram showing MCF-7 cells stained with ab72813 (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 (ab72813, 0.5µg/1x10<sup>6</sup> cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 (FITC) (2µg/1x10<sup>6</sup> cells) for 30 min at 22°C. Acquisition of >5,000 events was performed.



Immunocytochemistry/ Immunofluorescence - FITC Anti-Cytokeratin 18 antibody [DC-10] (ab72813)

ICC/IF image of ab72813 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 (ab72813, 1µg/ml) overnight at +4°C. 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.

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

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