abcam

ab9005

Anti-Cytokeratin 5 + 8 antibody [RCK102]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing MR21 cell line protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	RCK102
Purification technique	Affinity purification Protein G
Specificity	This antibody reacts with cytokeratin 5 and cytokeratin 8, recognizing virtually all epithelial tissues and carcinomas.
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1 µg/mL

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

Flow Cyt

Tested

Species	Human
Dilution info	1/100 - 1/200
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

IHC-Fr

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information KRT5

Function	Required for the formation of keratin intermediate filaments in the basal epidermis and maintenance of the skin barrier in response to mechanical stress (By similarity). Regulates the recruitment of Langerhans cells to the epidermis, potentially by modulation of the abundance of macrophage chemotactic cytokines, macrophage inflammatory cytokines and CTNND1 localization in keratinocytes (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in human epithelial tissues by at least 20 different polypeptides. They range in molecular weight between 40 kDa and 68 kDa and isoelectric pH between 4.9 – 7.8. The individual human cytokeratins are designated 1 to 20. The various epithelia in the human body usually express cytokeratins which are not only characteristic of the type of epithelium, but also related to the degree of maturation or differentiation within an epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

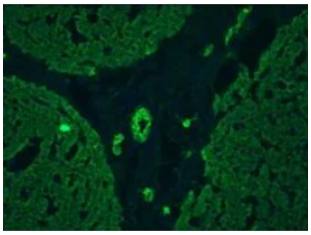
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

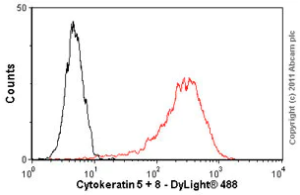
5 product images



Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 5 + 8 antibody [RCK102] (ab9005)

Cytokeratin 5 + 8 Immunohistochemistry (Frozen sections) staining using mouse Anti-Cytokeratin 5 + 8 antibody

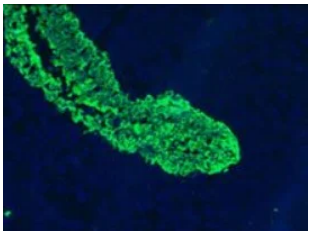
Immunohistochemistry analysis on frozen sections of human liver hepatocytes and bile ducts labeling Cytokeratin 5 + 8 using ab9005.



Flow Cytometry - Anti-Cytokeratin 5 + 8 antibody [RCK102] (ab9005)

Cytokeratin 5 + 8 Flow Cytometry staining using mouse Anti-Cytokeratin 5 + 8 antibody

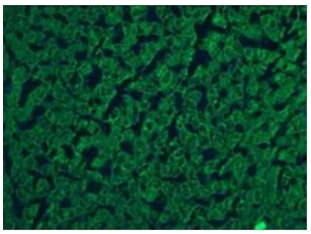
Overlay histogram showing A431 cells stained with ab9005 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Triton for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab9005, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in A431 cells fixed with 100% methanol (5 min)/permeabilized in 0.1% PBS-Triton used under the same conditions.



Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 5 + 8 antibody [RCK102] (ab9005)

Cytokeratin 5 + 8 Immunohistochemistry (Frozen sections) staining using mouse Anti-Cytokeratin 5 + 8 antibody

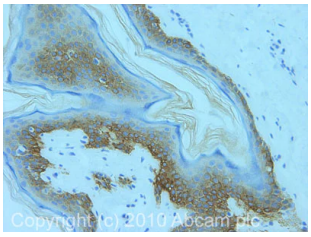
Immunohistochemistry analysis on frozen sections of human urinary bladder epithelium labeling Cytokeratin 5 + 8 using ab9005.



Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 5 + 8 antibody [RCK102] (ab9005)

Cytokeratin 5 + 8 Immunohistochemistry (Frozen sections) staining using mouse Anti-Cytokeratin 5 + 8 antibody

Immunohistochemistry analysis on frozen sections of human liver hepatocytes labeling Cytokeratin 5 + 8 using ab9005.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 + 8 antibody [RCK102] (ab9005)

Cytokeratin 5 + 8 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-Cytokeratin 5 + 8 antibody

IHC image of ab9005 staining in human skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond^{TM} system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab9005, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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