

Anti-basal cell Cytokeratin antibody [RCK103] ab9222

[4 References](#) [4 Images](#)

Overview

Product name	Anti-basal cell Cytokeratin antibody [RCK103]
Description	Mouse monoclonal [RCK103] to basal cell Cytokeratin
Host species	Mouse
Specificity	This antibody recognizes (amongst others) cytokeratin 5. It stains basal cells in combined and stratified epithelial tissues. It also recognizes the stem cell population, including the so-called amplifying cells in the prostate epithelium.
Tested applications	Suitable for: Flow Cyt, IHC-Fr
Species reactivity	Reacts with: Dog, Human, Zebrafish
Immunogen	Tissue, cells or virus corresponding to Human basal cell Cytokeratin. Mix of cell preparations containing human cytokeratins.

General 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.

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.

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&As

Properties

Form	Liquid
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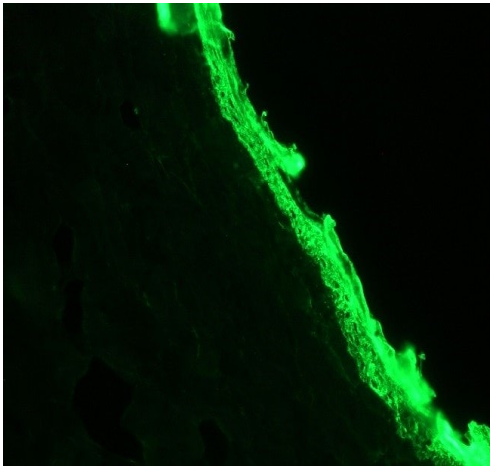
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Primary antibody notes	Cytokeratins are a subfamily of intermediate 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.
Clonality	Monoclonal
Clone number	RCK103
Myeloma	Sp2/0-Ag14
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9222 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

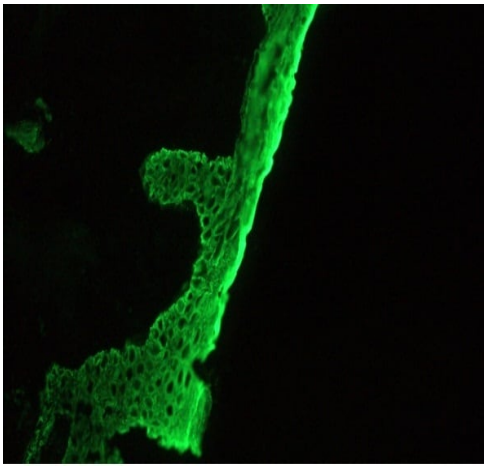
Application	Abreviews	Notes
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-Fr		1/100 - 1/200.

Images



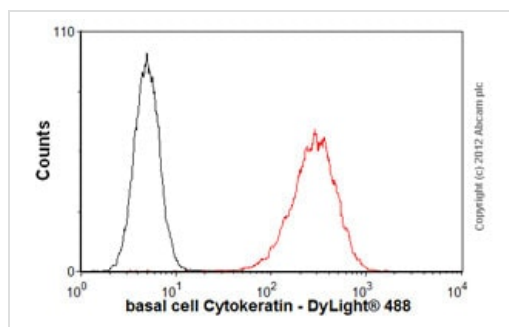
Indirect immunofluorescence staining of frozen section of dog skin ab9222 at dilution 1/100 showing positive staining in basal cells of epidermis.

Immunohistochemistry (Frozen sections) - Anti-basal cell Cytokeratin antibody [RCK103] (ab9222)



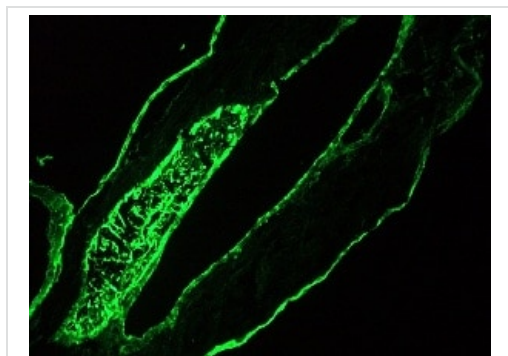
Immunohistochemistry on frozen sections of human skin

Immunohistochemistry (Frozen sections) - Anti-basal cell Cytokeratin antibody [RCK103] (ab9222)



Flow Cytometry - Anti-basal cell Cytokeratin antibody [RCK103] (ab9222)

Overlay histogram showing A431 cells stained with ab9222 (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. The cells were then incubated with the antibody (ab9222, 1µg/1x10⁶ cells) 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 IgG1 [ICIGG1] (**ab91353**, 2µg/1x10⁶ 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 (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunohistochemistry (Frozen sections) - Anti-basal cell Cytokeratin antibody [RCK103] (ab9222)

Immunofluorescence staining of a 7 days old zebrafish embryo, showing positive reactivity in epithelia lining the intestine and internal organs

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