abcam

ab243922

Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	SP178
Purification technique	Affinity purification Protein A/G
Concentration	1.022 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS by protein A/G.

Reactivity data

IHC-P

Tested

Species	Human

Dilution info	-
Notes	Deparaffinization: Deparaffinize slides using xylene or xylene alternative and graded alcohols. Antigen Retrieval: Boil tissue section in EDTA buffer, pH 8.0 for 10 min followed by cooling at room temperature for 20 min. Primary Antibody Incubation: Incubate for 10 minutes at room temperature. Slide Washing: Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween.

Predicted

Species	Mouse, Rat, Cow
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse, Rat, Cow
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	Incubate for 30 minutes at 4Â°C. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat, Cow
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 conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab243922 is the carrier-free version of ab183336.
There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

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

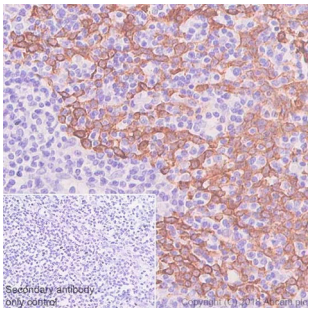
We do not recommend this combination. It is not covered by our product promise.

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.

18 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

Cytokeratin 5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human tonsil using rabbit Anti-Cytokeratin 5 antibody

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336).

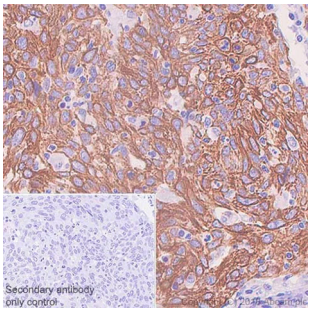
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Membranous staining on epithelial cells in the human tonsil, performed on a Leica Biosystems BOND® RX instrument.
The section was incubated with ab183336 for 10 mins at room temperature.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

Cytokeratin 5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cervix carcinoma using rabbit Anti-Cytokeratin 5 antibody

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336).

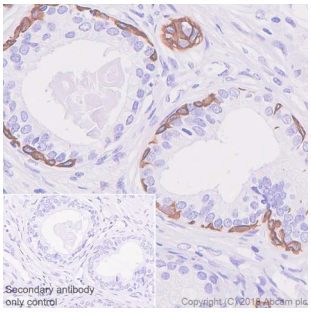
Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Membranous staining on the human cervix carcinoma, performed on a Leica Biosystems BOND® RX instrument.
The section was incubated with ab183336 for 10 mins at room temperature.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

Cytokeratin 5 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human prostate using rabbit Anti-Cytokeratin 5 antibody

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336).

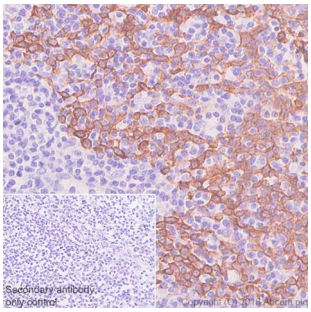
Immunohistochemical analysis of paraffin-embedded Human prostate tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Membranous staining on myoepithelium in the human prostate, performed on a Leica Biosystems BOND® RX instrument.
The section was incubated with ab183336 for 10 mins at room temperature.

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

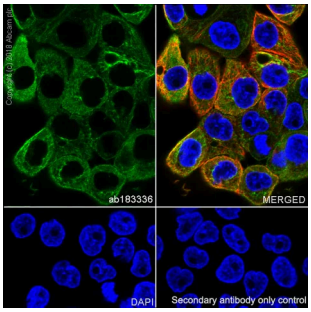
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling Cytokeratin 5 with ab183336 at 1/100 dilution (2.35 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) 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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336)

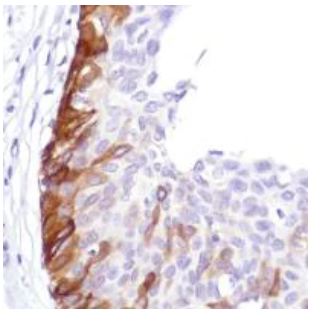


Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

Cytokeratin 5 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Cytokeratin 5 antibody

Immunocytochemistry/ Immunofluorescence analysis of A431 (human epidermoid carcinoma epithelial cell) cells labeling Cytokeratin 5 with purified ab183336 at 1/50 (4.7 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 (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

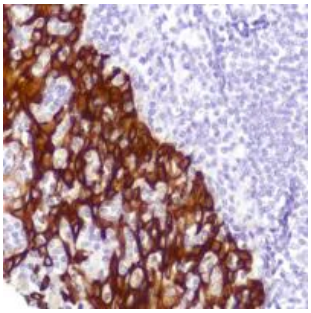
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

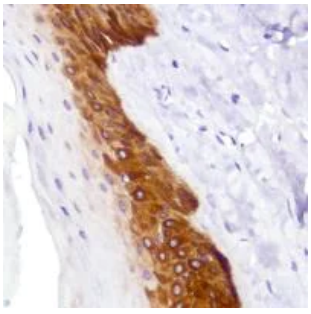
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human bladder tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

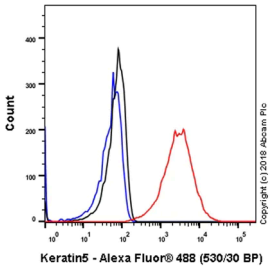
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human tonsil tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human skin tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).

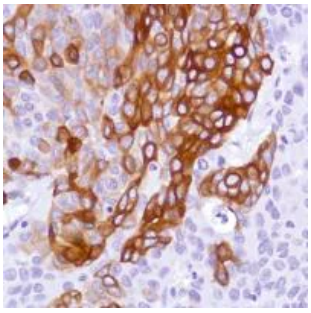


Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

Cytokeratin 5 Flow Cytometry (Intracellular) staining using rabbit Anti-Cytokeratin 5 antibody

Intracellular Flow Cytometry analysis of A431 (human epidermoid carcinoma epithelial cell) cells labeling Cytokeratin 5 with purified ab183336 at 1/20 dilution (11.75µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. 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. This data was

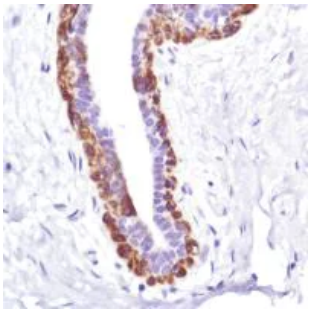
developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

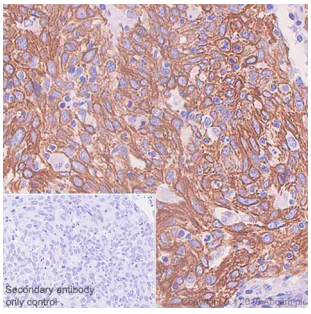
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human rectal carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

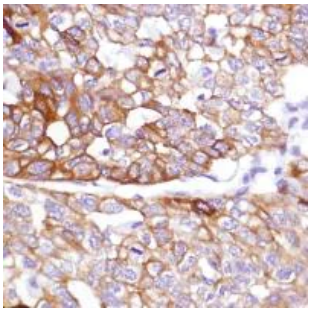
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human breast tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

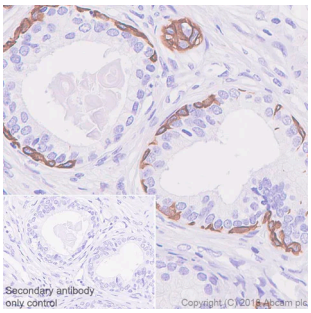
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cervix carcinoma tissue sections labeling Cytokeratin 5 with ab183336 at 1/100 dilution (2.35 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) 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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

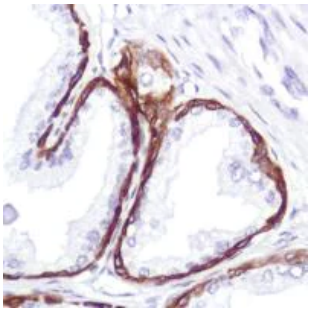
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human lung squamous cell carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

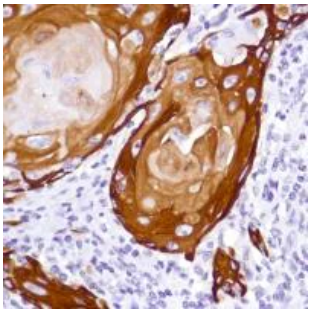
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human prostate tissue sections labeling Cytokeratin 5 with ab183336 at 1/100 dilution (2.35 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) 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.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab183336)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

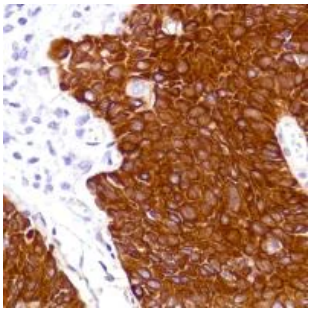
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human prostate tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

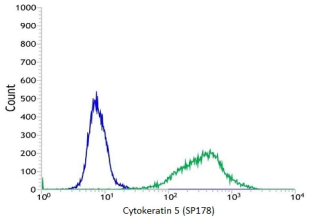
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human skin squamous cell carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

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

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human cervix squamous cell carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).



Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP178] - BSA and Azide free (ab243922)

Cytokeratin 5 Flow Cytometry (Intracellular) staining using rabbit Anti-Cytokeratin 5 antibody

Intracellular flow cytometric analysis of A431 cells labeling Cytokeratin 5 with ab183336 at 1/100 dilution (green) compared to a negative control rabbit IgG (blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, and sodium azide (ab183336).

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