abcam

ab64081

Anti-Cytokeratin 5 antibody [SP27]

Anti-Cytokeratin 5 antibody [SP27] (ab64081) is a rabbit monoclonal antibody detecting Cytokeratin 5 in **Western Blot, Flow Cytometry (Intra), IHC-P, IHC-Fr, ICC/IF, mIHC**. Suitable for **Human, Mouse, Rat**.

- Multiplex IHC validated on the Leica BOND® MAX using Opal reagents
- Biophysical QC for unrivalled batch-batch consistency
- Over 10 publications
- Trusted since 2008

Recombinant | RabMAb | Advanced Validation | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	SP27
Purification technique	Affinity purification Protein A/G
Purification notes	Purified from TCS by protein A/G.

Reactivity data

Flow Cyt (Intra)

Tested

Species	Human

Dilution info	1/100
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog, Pig
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog, Pig
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/100
Notes	Incubate for 30 min at room temperature. Staining of formalin fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.

Species	Rat
Dilution info	1/100
Notes	Incubate for 30 min at room temperature. Staining of formalin fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.

Species	Human
Dilution info	1/100
Notes	Incubate for 30 min at room temperature. Staining of formalin fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.

Predicted

Species	Cow, Dog, Pig
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

Predicted

Species	Cow, Dog, Pig
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Species	Rat
Dilution info	1/30
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog, Pig
Dilution info	-
Notes	-

mIHC

Tested

Species	Human

Dilution info	1/400
Notes	-

Species	Mouse
Dilution info	1/1500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Cow, Dog, Pig
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	Conditional Ambient
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

What is this antibody validated in?
Anti-Cytokeratin 5 antibody [SP27] (ab64081) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF), Multiplex IHC (mIHC) in Human, Mouse, Rat samples.

What is the molecular weight of Cytokeratin 5?
Anti-Cytokeratin 5 [SP27] (ab64081) specifically detects a band for Cytokeratin 5 (UniProt: P13647) at a molecular weight of 62kDa.

Collaboration
Anti-Cytokeratin 5 [SP27] (ab64081) is a clone from the portfolio of Spring Bioscience (Roche) SP clones which have been optimised for immunohistochemistry (IHC).

Trusted by the scientific community
Anti-Cytokeratin 5 [SP27] (ab64081) was first used in a scientific publication in 2008 and has been cited over 10 times in peer-reviewed journals.

Other related products
We have a range of other formats of antibody clone [SP27] also available for your convenience: ab64081, Carrier free - ab236216, Alexa Fluor® 488 - ab270900, ab279546, Alexa Fluor® 647 - ab320534, Alexa Fluor® 555 - ab320535, Alexa Fluor® 594 - ab320536, PE - ab320537, APC - ab320538, Alexa Fluor® 750 - ab321685

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

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.

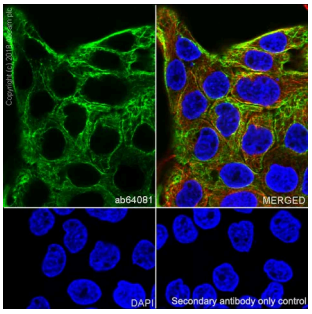
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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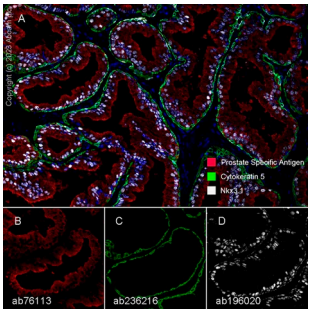
26 product images



Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

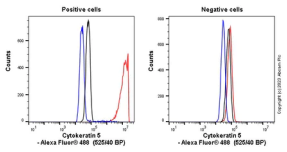
Cytokeratin 5 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Cytokeratin 5 antibody

Immunocytochemistry/ Immunofluorescence analysis of A431 (human epidermoid carcinoma epithelial cell) cells labeling Cytokeratin 5 with purified ab64081 at 1/100 (2.5 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 was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Multiplex immunohistochemistry - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Fluorescence multiplex immunohistochemical analysis of human prostate gland tissue (formalin/PFA-fixed paraffin-embedded section). Panel A: merged staining of anti-Prostate Specific Antigen (ab76113, red; Opal™690), anti-Cytokeratin 5 (ab236216, green; Opal™520) and anti-Nkx3.1 (ab196020, gray; Opal™570) on human prostate gland tissue. Panel B: anti-Prostate Specific Antigen stained on cytoplasm of luminal cells. Panel C: anti-Cytokeratin 5 stained on basal cells. Panel D: anti-p63 stained on nucleus of luminal cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of ab76113 (1/2000), ab236216 (1/400) and ab196020 (1/2000) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) was used for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope. This image was generated using ab64081, the same clone, but with a different buffer formulation.



Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

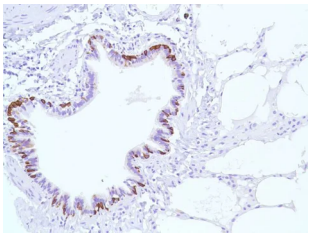
Cytokeratin 5 Flow Cytometry (Intracellular) staining using rabbit Anti-Cytokeratin 5 antibody

Flow cytometry overlay histogram showing left A-431 positive cells and right negative MCF7 stained with ab64081 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab64081) (1x 106 in 100µl at 1.0µg/ml (1/2080)) for 30min at 22°C.

The secondary antibody Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 for 30min at 22°C

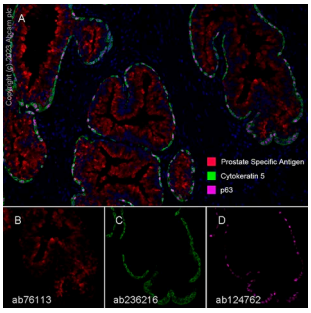
Isotype control antibody (black line) was Recombinant Rabbit IgG, monoclonal [EPR25A] - Isotype Control used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.



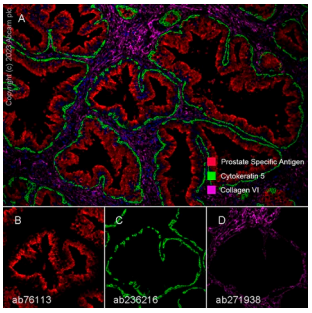
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Formalin-fixed, paraffin-embedded human lung tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



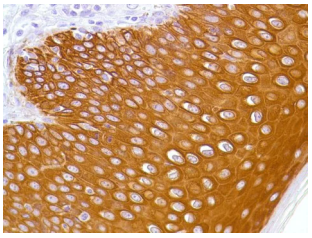
Multiplex immunohistochemistry - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Fluorescence multiplex immunohistochemical analysis of human prostate gland tissue (formalin/PFA-fixed paraffin-embedded section). Panel A: merged staining of anti-p63 (ab124762, magenta; Opal™690), anti-Cytokeratin 5 (ab236216, green; Opal™520) and anti-Prostate Specific Antigen (ab76113, red; Opal™570) on human prostate gland tissue. Panel B: anti-Prostate Specific Antigen stained on luminal cells. Panel C: anti-Cytokeratin 5 stained on cytoplasm of basal cells. Panel D: anti-p63 stained on nucleus of basal cells. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of ab124762 (1/5000), ab236216 (1/400), and ab76113 (1/2000) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) was used for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.



Multiplex immunohistochemistry - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

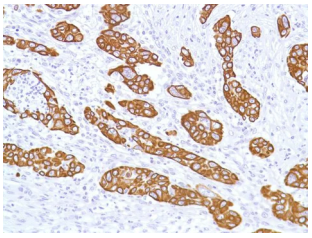
Fluorescence multiplex immunohistochemical analysis of human prostate gland tissue (formalin/PFA-fixed paraffin-embedded section). Panel A: merged staining of anti-Collagen VI (ab271938, magenta; Opal™690), anti-Cytokeratin 5 (ab236216, green; Opal™520) and anti-Prostate Specific Antigen (ab76113, red; Opal™570) on human prostate gland tissue. Panel B: anti-Prostate Specific Antigen stained on luminal cells. Panel C: anti-Cytokeratin 5 stained on basal cells. Panel D: anti-Collagen VI stained on stroma. Opal Polymer HRP Ms + Rb was used as a secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. The section was incubated in three rounds of staining: in the order of ab271938 (1/500), ab236216 (1/400), and ab76113 (1/2000) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) was used for 20 mins. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Leica SP8 confocal microscope.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

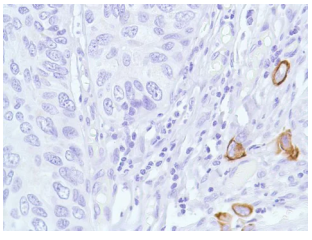
Formalin-fixed, paraffin-embedded human skin tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

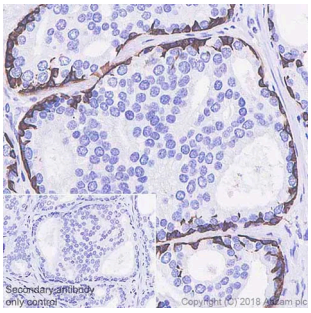
Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

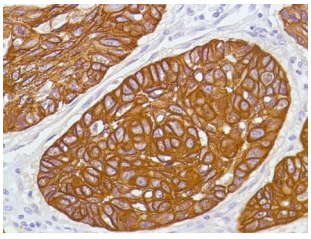
Formalin-fixed, paraffin-embedded human bladder transitional cell carcinoma tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

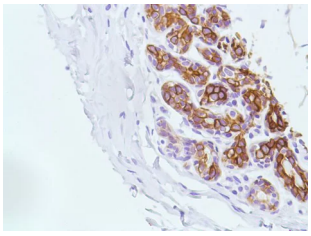
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human prostate cancer
tissue sections labeling Cytokeratin 5 with ab64081 at 1/100 dilution (2.46 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on human prostate cancer, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab64081 for 30 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

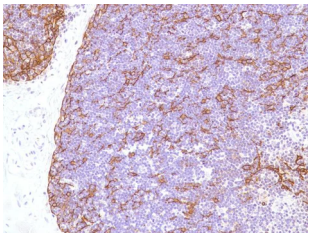
Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

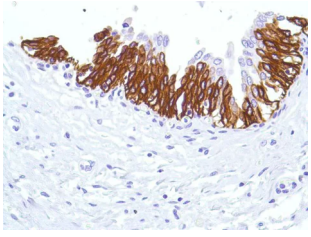
Formalin-fixed, paraffin-embedded human breast tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

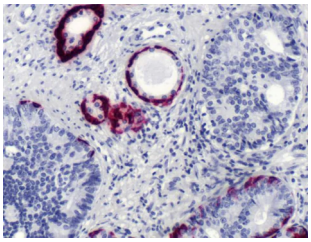
Formalin-fixed, paraffin-embedded human thymus tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

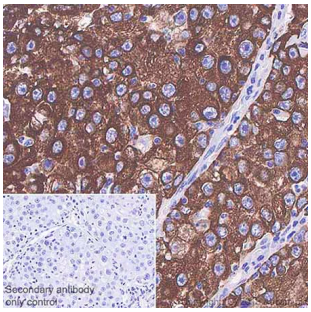
Formalin-fixed, paraffin-embedded human bladder tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

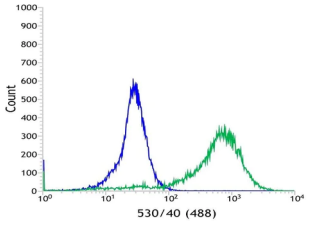
Formalin-fixed, paraffin-embedded human prostate adenocarcinoma tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

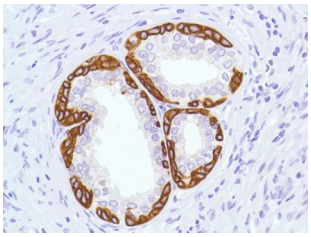
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung squamous cell cancer tissue sections labeling Cytokeratin 5 with ab64081 at 1/100 dilution (2.46 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Cytoplasmic staining on tumor cells of human lung squamous cell cancer, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab64081 for 30 mins at room temperature.



Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

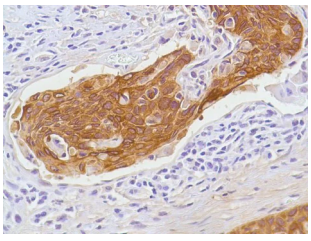
Flow cytometric analysis of A431 (human epidermoid carcinoma cell line) cell line labeling Cytokeratin 5 with ab64081 at 1/100 dilution (green) compared with a negative control of rabbit IgG (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

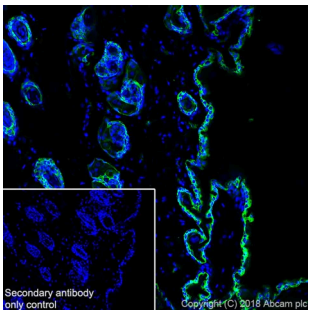
Formalin-fixed, paraffin-embedded human prostate tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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

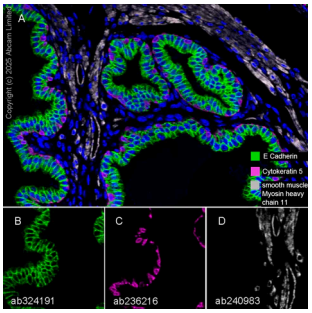
Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for Cytokeratin 5 using ab64081 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Cytokeratin 5 Immunohistochemistry (Frozen sections) staining using rabbit Anti-Cytokeratin 5 antibody

Immunohistochemistry (Frozen) analysis of mouse skin tissue section labeling Cytokeratin 5 with purified ab64081 at 1/30 (8.2 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Multiplex immunohistochemistry - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Cytokeratin 5 Multiplex immunohistochemistry staining of Mouse Prostate tissue using rabbit Anti-Cytokeratin 5 antibody

This data was developed using ab236216, the same antibody clone in a different buffer formulation.

Immunohistochemistry analysis of Formalin/PFA-fixed paraffin-embedded sections Mouse Prostate tissue labelling E Cadherin with ab324191 at 1:500 dilution (B), Cytokeratin 5 with ab236216 at 1:1500 dilution (C) and smooth muscle Myosin heavy chain 11 with ab240983 at 1:4000 dilution (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 Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Panel A: merged staining of anti-E Cadherin (green; Opal™690), anti-Cytokeratin 5 (magenta; Opal™520) and anti-smooth muscle Myosin heavy chain 11 (gray; Opal™570) on mouse prostate.

Panel B: anti-E Cadherin staining epithelium in mouse prostate.

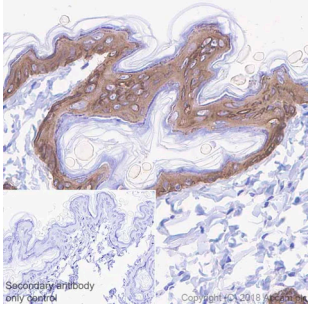
Panel C: ant-Cytokeratin 5 staining basal cells in mouse prostate.

Panel D: ant-smooth muscle Myosin heavy chain 11 staining smooth muscle in mouse prostate.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab324191, ab236216 and ab240983 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.

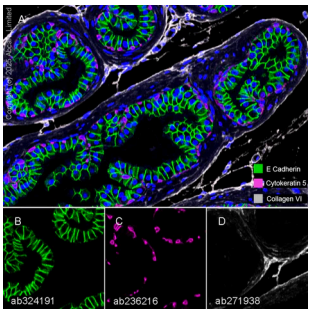


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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 Rat skin tissue sections labeling Cytokeratin 5 with ab64081 at 1/100 dilution (2.46 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit

specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Cytoplasmic staining on rat skin, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab64081 for 30 mins at room temperature.



Multiplex immunohistochemistry - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Cytokeratin 5 Multiplex immunohistochemistry staining of Mouse Prostate tissue using rabbit Anti-Cytokeratin 5 antibody

This data was developed using ab236216, the same antibody clone in a different buffer formulation.

Immunohistochemistry analysis of Formalin/PFA-fixed paraffin-embedded sections Mouse Prostate tissue labelling E Cadherin with ab324191 at 1:500 dilution (B), Cytokeratin 5 with ab236216 at 1:1500 dilution (C) and Collagen VI with ab271938 at 1:2000 dilution (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 Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Panel A: merged staining of anti-E Cadherin (green; Opal™690), anti-Cytokeratin 5 (magenta; Opal™520) and anti-Collagen VI (gray; Opal™570) on mouse prostate.

Panel B: anti-E Cadherin staining epithelium in mouse prostate.

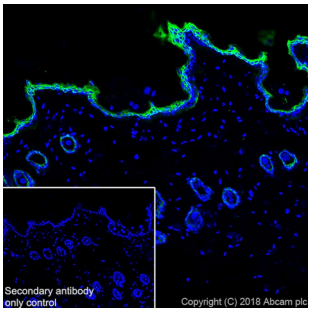
Panel C: ant-Cytokeratin 5 staining basal cells in mouse prostate.

Panel D: ant-Collagen VI staining stoma in mouse prostate.

Nuclear DNA was labelled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab324191, ab236216 and ab271938 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

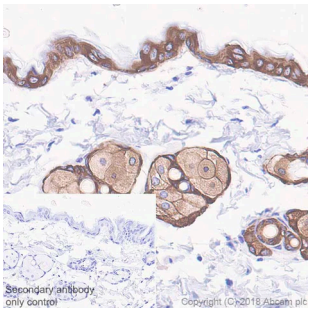
The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Cytokeratin 5 Immunohistochemistry (Frozen sections) staining using rabbit Anti-Cytokeratin 5 antibody

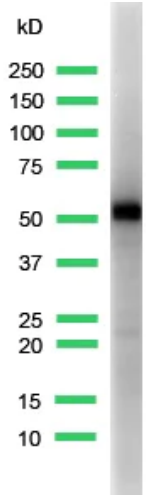
Immunohistochemistry (Frozen) analysis of rat skin tissue section labeling Cytokeratin 5 with purified ab64081 at 1/30 (8.2 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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 Mouse skin tissue sections labeling Cytokeratin 5 with ab64081 at 1:100 dilution (2.46 µg/ml). Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Cytoplasmic staining on mouse skin, performed on a Leica Biosystems BOND^{TM} RX instrument
The section was incubated with ab64081 for 30 mins at room temperature.



Western blot - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

This image refers to the non-prediluted version of this antibody (ab64081)
All lanes:
Western blot - Anti-Cytokeratin 5 antibody [SP27] (ab64081) at 1/100 dilution

All lanes:
A431 (human epidermoid carcinoma cell line) whole cell lysate

Predicted band size: 62 kDa

Observed band size: 53 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.