abcam

ab7753

Anti-pan Cytokeratin antibody [C-11]

Anti-pan Cytokeratin antibody [C-11] (ab7753) is a mouse monoclonal antibody detecting pan Cytokeratin in **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
- Over 140 publications
- Trusted since 2001

Lab Essentials | Recombinant | Advanced Validation

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	C-11
Purification technique	Affinity purification Protein A
Specificity	Cytokeratin peptides 4,5,6,8,10,13,18.
Concentration	0.956 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from TCS. Purity >95% by SDS-PAGE.

Reactivity data

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

IHC-P

Tested

Species	Mouse
Dilution info	1 µg/mL
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1 µg/mL
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Human
Dilution info	1 µg/mL
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ICC/IF

Tested

Species	Human
Dilution info	1 µg/mL

Notes	-

Expected

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

mIHC

Tested

Species	Human
Dilution info	-
Notes	-

Expected

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

IHC-Fr

Tested

Species	Mouse
Dilution info	1 µg/mL
Notes	This antibody is not suitable for IHC-Fr-IF. The IHC-Fr-DAB application has been retained based on the positive result.

Species	Rat
Dilution info	1 µg/mL
Notes	This antibody is not suitable for IHC-Fr-IF. The IHC-Fr-DAB application has been retained based on the positive result.

Species	Human

Dilution info	1 µg/mL
Notes	This antibody is not suitable for IHC-Fr-IF. The IHC-Fr-DAB application has been retained based on the positive result.

Target data

See full target information KRT4

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

This product has switched from a hybridoma to recombinant production method on 08th March 2021

Product Specifications
Anti-pan Cytokeratin antibody [C-11] (ab7753) is a mouse recombinant monoclonal antibody and is validated for use in Flow Cyt (Intra), ICC/IF, IHC-Fr, IHC-P, mIHC in human, mouse, rat samples.
Anti-pan Cytokeratin antibody [C-11] (ab7753) specifically detects pan Cytokeratin (UniProt ID: Q7Z794; Molecular weight: 62kDa) and is sold in a convenient trial size to enable initial testing (20 µg) and larger sizes for subsequent scaling up experiments (100 µg and 1 mg).

Quality and Validation
Abcam's high quality manufacturing and validation processes ensure Anti-pan Cytokeratin antibody [C-11] (ab7753) has high sensitivity and specificity alongside high lot-to-lot consistency and reproducibility.
Anti-pan Cytokeratin antibody [C-11] (ab7753) has been cited over 146 times in peer reviewed journals and is trusted by the scientific community.
Anti-pan Cytokeratin antibody [C-11] (ab7753) has 23 independent reviews from customers.

Related Products
Antibody clone C-11 is also available pre-conjugated to a variety of labels for your convenience - PE, APC, Alexa

Fluor® 594, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 647 (ab52460, ab106166, ab277234, ab277270, ab279324, ab309978).

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Pan cytokeratin also known as cytokeratin AE1/AE3 is a cytoskeletal protein complex that consists of different keratin polypeptides. It mechanically supports epithelial cells contributing to their structural integrity. The protein mass is variable due to its composite nature ranging between 40 to 67 kDa. Pan cytokeratin is expressed in epithelial tissues throughout the body serving as a reliable marker for identifying epithelial origin cells in histological studies.
Biological function summary	Keratins in pan cytokeratin contribute to maintaining structural stability within epithelial cells. They act as components of the cytoskeletal network interacting with other cellular structures to provide protection from stress and mechanical damage. Pan cytokeratin exists as part of the intermediate filament protein complex which plays a significant role in cellular mechanics and cohesion essential for tissue integrity.
Pathways	Intermediate filaments containing pan cytokeratin participate in pathways related to cell differentiation and stress response. Its interactions with other proteins like desmoplakin and plectin link the cytoskeletal filaments to cell membranes and the extracellular matrix. This involvement is important in pathways related to cellular structural integrity and epithelial-mesenchymal transition (EMT).
Associated diseases and disorders	Pan cytokeratin serves as a critical marker in the diagnosis of epithelial-derived cancers such as carcinoma and conditions like psoriasis. Abnormal expression patterns of pan cytokeratin indicate tumor presence and origin. Its connection to proteins such as E-cadherin and vimentin assists in understanding the progression and metastasis of cancer by facilitating EMT and tissue invasion diagnostics.

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.

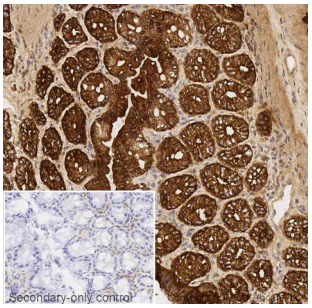
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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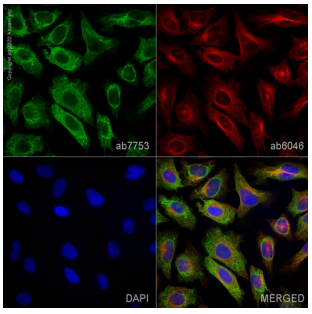
18 product images



Immunohistochemistry (Frozen sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Frozen sections) staining using mouse Anti-pan Cytokeratin antibody

IHC image of pan cytokeratin staining in a section of frozen normal mouse large intestine performed on a Leica BONDTM system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab7753, 1µg/ml, for 15 mins at room temperature. A goat anti-mouse IgG1 bridging antibody, ab125913, was added for 8 mins at room temperature and detected using an HRP conjµgated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.



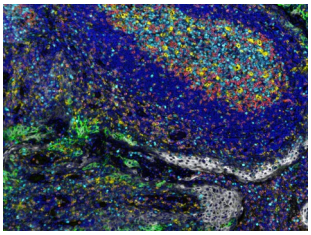
Immunocytochemistry/ Immunofluorescence - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunocytochemistry/ Immunofluorescence staining using mouse Anti-pan Cytokeratin antibody

ab7753 staining pan Cytokeratin in HeLa cells. The cells were fixed with 4% paraformaldehyde (10 min)permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab7753 at 1µg/ml and ab6046Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with ab150117Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and ab150080Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue). Also suitable in cells fixed with 100% methanol (5 min).

Image was acquired with a high-content analyser (Operetta CLSPerkin Elmer) and a maximum intensity projection of confocal sections is shown.

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Multiplex immunohistochemistry - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Multiplex immunohistochemistry staining of human tonsil tissue using mouse Anti-pan Cytokeratin antibody

Fluorescence multiplex immunohistochemical analysis of normal human tonsil tissue (formalin-fixed paraffin-embedded section).
Merged staining of anti-PD1 (ab237728; orange; Opal™520) anti-PDL1 (ab237726; green; Opal™540) anti-CD68 (ab192847; yellow; Opal™570) anti-CD3 epsilon (ab16669; red; Opal™620) anti-Ki67 (ab16667; light blue; Opal™650) and anti-PanCK (ab7753; grey; Opal™690).

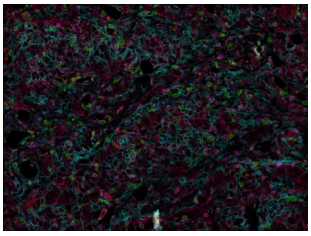
The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 7-color automation IHC kit (NEL821001KT Akoya Biosciences®).

The section was incubated in six rounds of staining; in the order of ab237728 (1/500 dilution), ab237726 (1/500 dilution), ab192847 (1/300 dilution), ab16669 (1/300 dilution), ab16667 (1/200 dilution) and ab7753 (1/200 dilution); each using a separate fluorescent tyramide signal amplification system.

Sodium citrate antigen retrieval (Leica ER1 pH6.0 30 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round to avoid any cross-reactivity.

DAPI (dark blue) was used as a nuclear counter stain.

Microscopy and pseudocoloring of individual Opal™ dyes was performed using a Vectra Polaris.



This image is courtesy of ImmunoAtlas.

Multiplex immunohistochemistry - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Multiplex immunohistochemistry staining using mouse Anti-pan Cytokeratin antibody

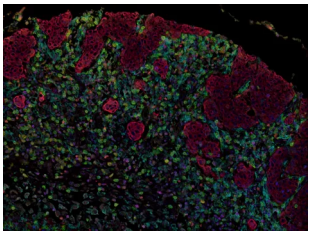
Fluorescence multiplex immunohistochemical analysis of Human breast cancer tissue (formalin-fixed paraffin-embedded section).
Merged staining of Anti-PD-L1 (ab251611; cyan; Opal™ 520), Anti-Granzyme B (ab219803; yellow; Opal™ 540), Anti-PD1 (ab251613; magenta; Opal™ 570), Anti-pan Cytokeratin (ab264485; red; Opal™ 620), Anti-EpCAM (ab225894; red; Opal™ 620), Anti-CD8 alpha (ab251596; green; Opal™ 650) and Anti-FOXP3 (ab96048; orange; Opal™ 690). EpCAM and pan-cytokeratin share the same dye and color. Dyes are pseudo-colored for better contrast of the markers.

The immunostaining was performed on a Leica Biosystems BOND® MAX instrument with an Opal™ 6-Plex Detection Kit (NEL821001KT, Akoya Biosciences®).

The section was incubated in six rounds of staining; sequentially for ab251611 (1/750 dilution), ab219803 (1/250 dilution), ab251613 (1/750 dilution), ab264485 (0.5 µg/ml), ab225894 (1/1250 dilution), ab251596 (1/1500 dilution) and ab96048 (10 µg/ml); each using a separate fluorescent tyramide signal amplification system. EDTA based antigen retrieval (Leica Biosystems BOND® Epitope Retrieval Solution 2, pH 9.0, 20 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity. DAPI

(dark blue) was used as a nuclear counter stain.
Microscopy and pseudocoloring of individual Opal™ dyes was performed using a Vectra 3 Imaging System (Akoya Biosciences®).

This data is courtesy of ImmunoAtlas and it can be found here.



This image is courtesy of ImmunoAtlas.

Multiplex immunohistochemistry - Anti-pan Cytokeratin antibody [C-11] (ab7753)

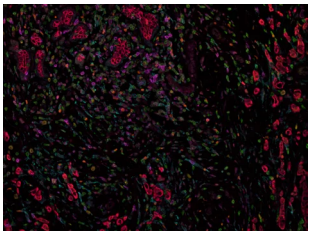
Pan Cytokeratin Multiplex immunohistochemistry staining using mouse Anti-pan Cytokeratin antibody

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Multiplex immunohistochemistry - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Multiplex immunohistochemistry staining using mouse Anti-pan Cytokeratin antibody

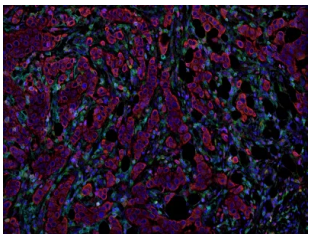
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Epitope Retrieval Solution 2, pH 9.0, 20 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity. DAPI (dark blue) was used as a nuclear counter stain.
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Multiplex immunohistochemistry - Anti-pan Cytokeratin antibody [C-11] (ab7753)

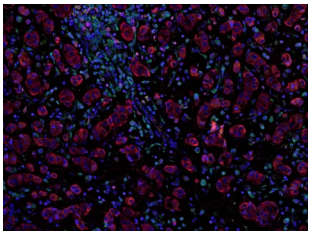
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Multiplex immunohistochemistry - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Multiplex immunohistochemistry staining using mouse Anti-pan Cytokeratin antibody

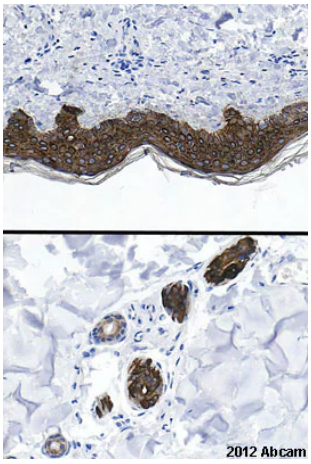
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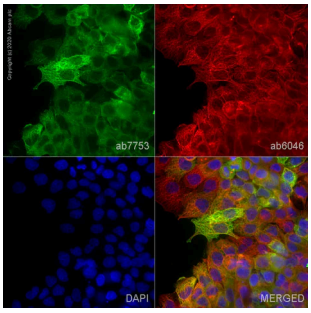


This image is courtesy of a customer review submitted by Carl Hobbs

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-pan Cytokeratin antibody

This image was generated from the hybridoma version of the product.
ab7753 staining human skin sections by IHC-P. The tissue was fixed with formaldehyde and a heat mediated antigen retrival step was performed with citric acid pH 6. Blocking of the sample was done with 1% BSA for 10 minutes at 21°C, followed by staining with ab7753 at 1/250 in TBS/BSA/azide for 2h at 21°C. A biotinylated goat anti-rabbit polyclonal antibody at 1/200 was used as the secondary antibody.

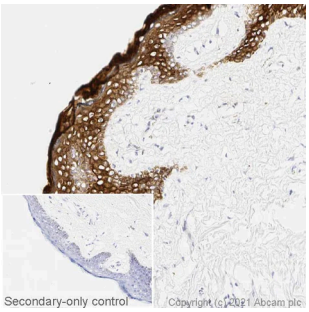


Immunocytochemistry/ Immunofluorescence - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunocytochemistry/ Immunofluorescence staining using mouse Anti-pan Cytokeratin antibody

ab7753 staining pan Cytokeratin in A431 cells. The cells were fixed with 4% paraformaldehyde (10 min),permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab7753 at 1µg/ml and ab6046,Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with ab150117,Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and ab150080,Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue). Also suitable in cells fixed with 100% methanol (5 min).
Image was acquired with a high-content analyser (Operetta CLS,Perkin Elmer) and a maximum intensity projection of confocal sections is shown.

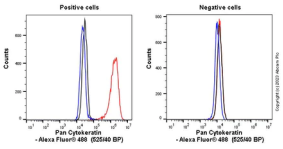
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Immunohistochemistry (Frozen sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Frozen sections) staining using mouse Anti-pan Cytokeratin antibody

IHC image of pan cytokeratin staining in a section of frozen normal human skin performed on a Leica BONDTM system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab7753, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjµgated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.



Flow Cytometry (Intracellular) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Flow Cytometry (Intracellular) staining using mouse Anti-pan Cytokeratin antibody

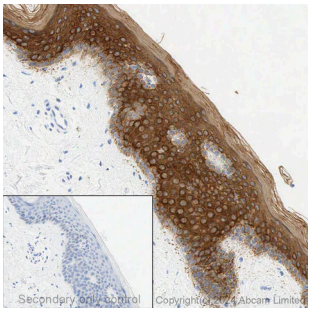
Flow cytometry overlay histogram showing left HeLa positive cells and right negative Jurkat stained with ab7753 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilised with 0.1% PBS-Triton X-100 for 15 min. The cells were then incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab7753) (1x 106 in 100µl at 0.2µg/ml (1/13150)) for 30min at 22°C.

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

Isotype control antibody (black line) was Mouse IgG1, kappa monoclonal [15-6E10A7] - 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.

This antibody gave a positive signal in HeLa Fixed with 4% formaldehyde (10 min) / permeabilised with 0.1% PBS-Triton X-100 for 15 min under the same conditions.

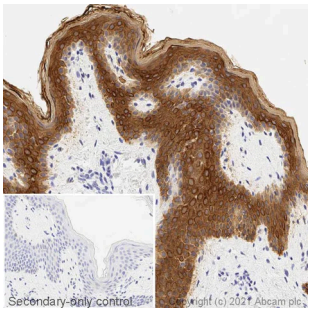


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Immunohistochemical analysis of formalin fixed paraffin embedded human skin labelling pan Cytokeratin with ab7753 at a concentration of 0.1µg/ml. The immunostaining was performed on a Ventana DISCOVERY ULTRA (Roche Tissue Diagnostics) instrument with a OptiView DAB IHC Detection Kit. Heat mediated antigen retrieval was performed with DISCOVERY cell conditioning solution (CC1) 100°C, pH8.5 for 32mins.

ab7753 Anti-pan Cytokeratin antibody [C-11] was incubated for 16mins at 37°C. Sections were counterstained with Hematoxylin II. Image inset shows absence of staining in secondary antibody only control.

Customers are encouraged to optimise antigen retrieval conditions, antibody concentration, incubation times and temperature for best results in their own IHC assay workflow (automated and manual).

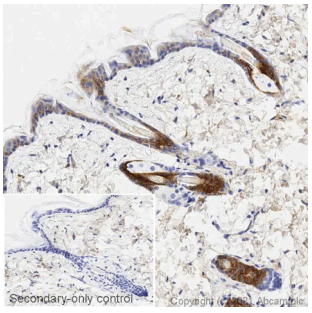


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-pan Cytokeratin antibody

IHC image of pan cytokeratin staining in a section of formalin-fixed paraffin-embedded normal human skin* performed on a Leica BONDTM 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 20mins. The section was then incubated with ab7753, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjµgated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. 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.
*Tissue obtained from the Human Research Tissue Bank,supported by the NIHR Cambridge Biomedical Research Centre

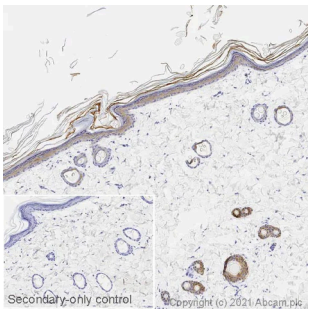
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-pan Cytokeratin antibody

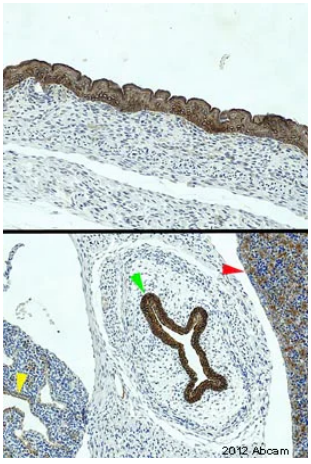
IHC image of pan cytokeratin staining in a section of formalin-fixed paraffin-embedded normal mouse skin performed on a Leica BONDTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6,epitope retrieval solution 1) for 20mins. The section was then incubated with ab7753, 1µg/ml, for 15 mins at room temperature. A goat anti-mouse IgG1 bridging antibody, ab125913, was added for 8 mins at room temperature and detected using an HRP conjµgated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-pan Cytokeratin antibody

IHC image of pan cytokeratin staining in a section of formalin-fixed paraffin-embedded normal rat skin performed on a Leica BONDTM 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 20mins. The section was then incubated with ab7753, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjµgated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody. 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.

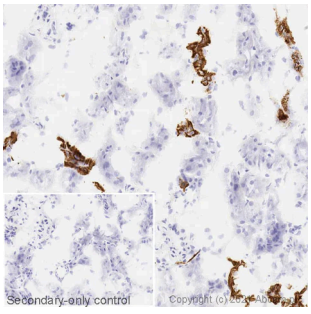


This image is courtesy of a customer review submitted by Carl Hobbs

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-pan Cytokeratin antibody

This image was generated from the hybridoma version of the product.
ab7753 staining rat embryonic skin/organ sections by IHC-P. The tissue was fixed with formaldehyde and a heat mediated antigen retrival step was performed with citric acid pH 6. Blocking of the sample was done with 1% BSA for 10 minutes at 21°C, followed by staining with ab77539 at 1/250 in TBS/BSA/azide for 2h at 21°C. A biotinylated goat anti-mouse polyclonal antibody at 1/200 was used as the secondary antibody.



Immunohistochemistry (Frozen sections) - Anti-pan Cytokeratin antibody [C-11] (ab7753)

Pan Cytokeratin Immunohistochemistry (Frozen sections) staining using mouse Anti-pan Cytokeratin antibody

IHC image of pan cytokeratin staining in a section of frozen normal rat kidney performed on a Leica BONDTM system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab7753,1µg/ml, for 15 mins at room temperature and detected using an HRP conjµgated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

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