abcam

Product datasheet

Anti-Cytokeratin 5 antibody [SP27] ab64081

リコンビナント RabMAb

4 Abreviews 7 References 画像数 25

製品の概要

製品名	Anti-Cytokeratin 5 antibody [SP27]
製品の詳細	Rabbit monoclonal [SP27] to Cytokeratin 5
由来種	Rabbit
アプリケーション	**適用あり:** mIHC, Flow Cyt (Intra), WB, Flow Cyt, IHC-P, ICC/IF, IHC-Fr
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Cow, Dog, Pig
免疫原	Synthetic peptide within Human Cytokeratin 5 aa 550 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: **P13647**
ポジティブ・コントロール	WB: HepG2 whole cell lysate (**ab166833**), A431 whole cell lysate. IHC-P: Human prostate adenocarcinoma, prostate, thymus, skin, pancreatic adenocarcinoma, lung, lung squamous cell carcinoma, breast, cervical squamous cell carcinoma, bladder and bladder transtitional cell carcinoma tissue. Mouse skin and Rat skin tissues. IHC-Fr: Mouse and rat skin tissue section. Flow Cyt (Intra): A431 cells. ICC/IF: A431 cells. mIHC: Human prostate gland tissues.
特記事項	**This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.**

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
精製度	Protein A/G purified
特記事項（精製）	Purified from TCS by protein A/G.
ポリ/モノ	モノクローナル
クローン名	SP27

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab64081の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
mIHC		1/400.
Flow Cyt (Intra)		1/100.
WB		1/100. Predicted molecular weight: 62 kDa.
Flow Cyt		Use at an assay dependent concentration.
IHC-P	★★★★★ (2)	1/100. 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.
ICC/IF	★★★☆☆ (1)	1/100.
IHC-Fr	★★★★☆ (1)	1/30.

ターゲット情報

関連疾患

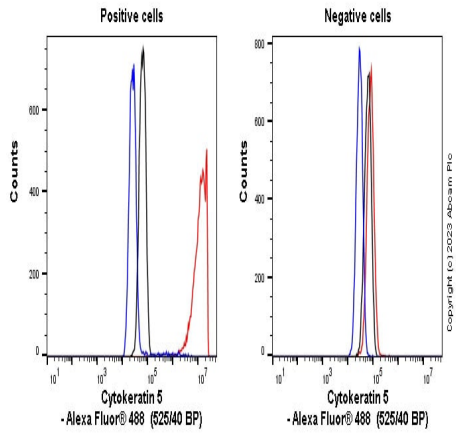
Defects in KRT5 are a cause of epidermolysis bullosa simplex Dowling-Meara type (DM-EBS) [MIM:131760]. DM-EBS is a severe form of intraepidermal epidermolysis bullosa characterized by generalized herpetiform blistering, milia formation, dystrophic nails, and mucous membrane involvement.
Defects in KRT5 are the cause of epidermolysis bullosa simplex with migratory circinate erythema (EBSMCE) [MIM:609352]. EBSMCE is a form of intraepidermal epidermolysis bullosa characterized by unusual migratory circinate erythema. Skin lesions appear from birth primarily on the hands, feet, and legs but spare nails, ocular epithelia and mucosae. Lesions heal with brown pigmentation but no scarring. Electron microscopy findings are distinct from those seen in the DM-EBS, with no evidence of tonofilament clumping.
Defects in KRT5 are a cause of epidermolysis bullosa simplex Weber-Cockayne type (WC-EBS) [MIM:131800]. WC-EBS is a form of intraepidermal epidermolysis bullosa characterized by blistering limited to palmar and plantar areas of the skin.
Defects in KRT5 are a cause of epidermolysis bullosa simplex Koebner type (K-EBS) [MIM:131900]. K-EBS is a form of intraepidermal epidermolysis bullosa characterized by generalized skin blistering. The phenotype is not fundamentally distinct from the Dowling-Meara type, althought it is less severe.
Defects in KRT5 are the cause of epidermolysis bullosa simplex with mottled pigmentation (MP-EBS) [MIM:131960]. MP-EBS is a form of intraepidermal epidermolysis bullosa characterized by blistering at acral sites and 'mottled' pigmentation of the trunk and proximal extremities with hyper- and hypopigmentation macules.
Defects in KRT5 are the cause of Dowling-Degos disease (DDD) [MIM:179850]; also known as

Dowling-Degos-Kitamura disease or reticulate acropigmentation of Kitamura. DDD is an autosomal dominant genodermatosis. Affected individuals develop a postpubertal reticulate hyperpigmentation that is progressive and disfiguring, and small hyperkeratotic dark brown papules that affect mainly the flexures and great skin folds. Patients usually show no abnormalities of the hair or nails.

配列類似性

Belongs to the intermediate filament family.

画像



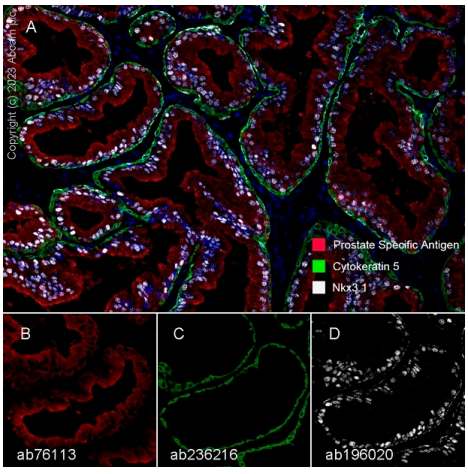
Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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 10^6 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.

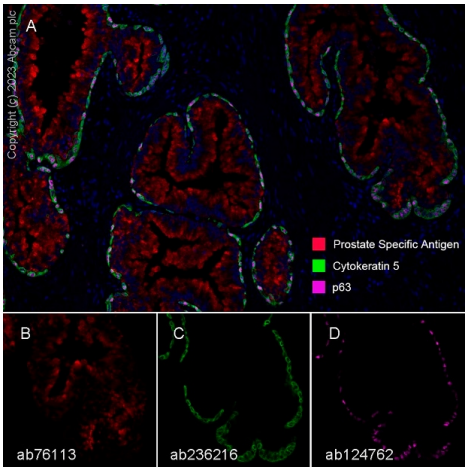
Acquisition of >5000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter.



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

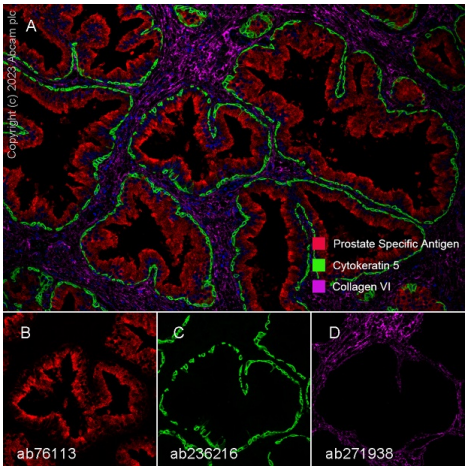
Fluorescence multiplex immunohistochemical analysis of human prostate gland tissue (formalin/PFA-fixed paraffin-embedded section). Panel A: merged staining of anti-Prostate Specific Antigen (**ab76113**, red; Opal™690), anti-Cytokeratin 5 (**ab236216**, green; Opal™520) and anti-Nkx3.1 (**ab196020**, 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.



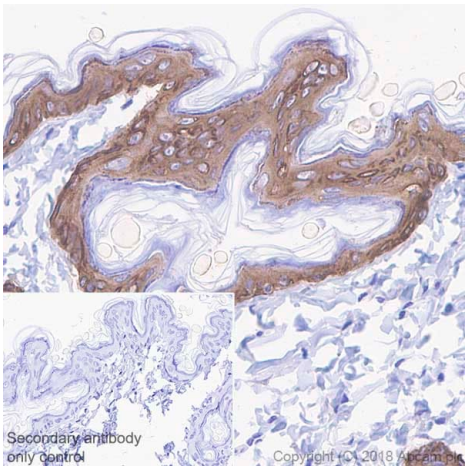
Multiplex immunohistochemistry - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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.



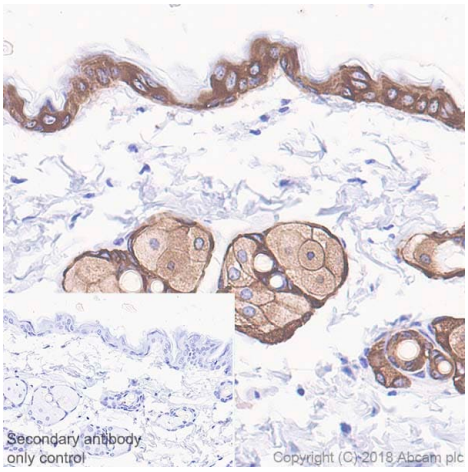
Multiplex immunohistochemistry - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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.



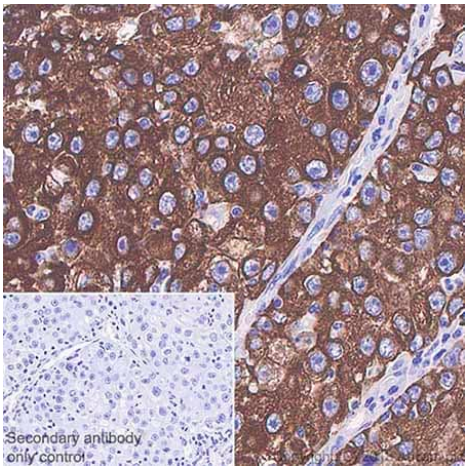
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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.



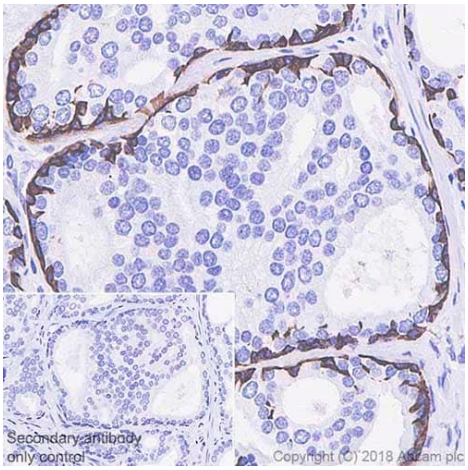
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse skin tissue sections labeling Cytokeratin 5 with ab64081 at 1:100 dilution (2.46 ?g/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™ RX instrument
The section was incubated with ab64081 for 30 mins at room temperature.



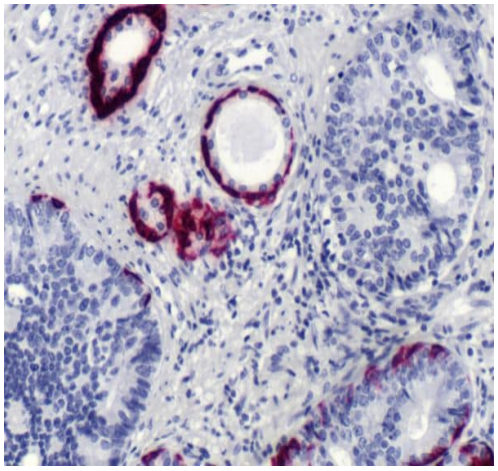
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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.



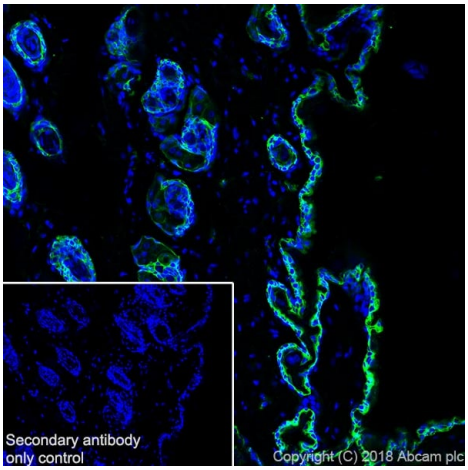
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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.



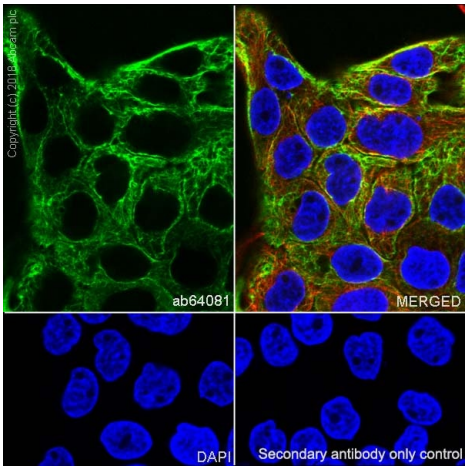
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



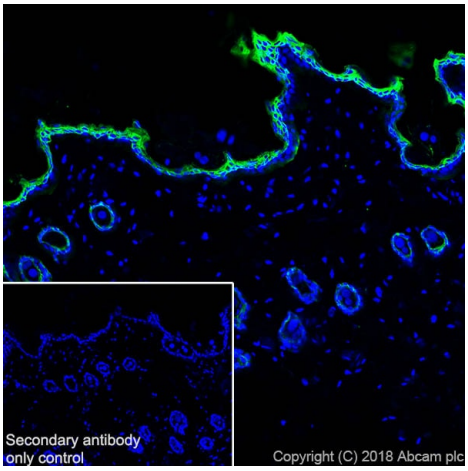
Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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.



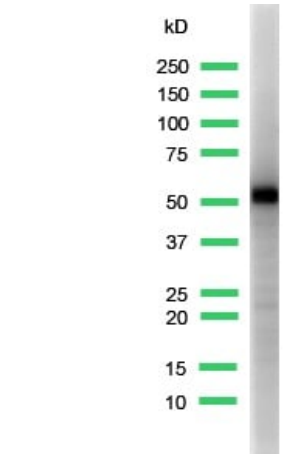
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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.



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

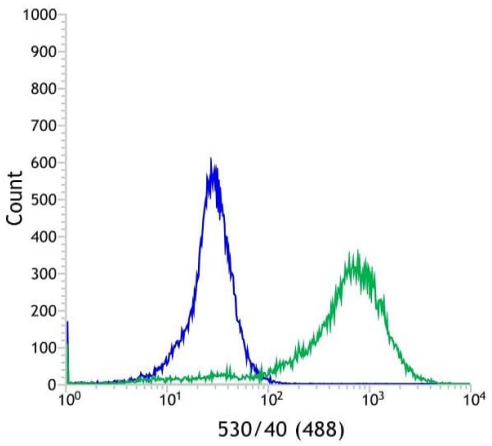
Immunohistochemistry (Frozen) analysis of rat skin tissue section labeling Cytokeratin 5 with purified ab64081 at 1/30 (8.2 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was Heat mediated antigen retrieval using sodium citrate buffer (10mM 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.



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

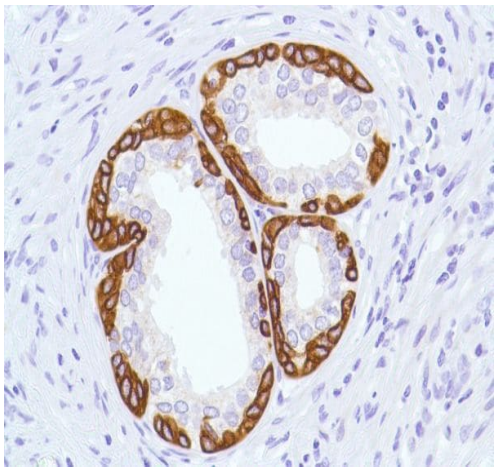
Anti-Cytokeratin 5 antibody [SP27] (ab64081) at 1/100 dilution + A431 (human epidermoid carcinoma cell line) whole cell lysate

Predicted band size: 62 kDa
Observed band size: 53 kDa



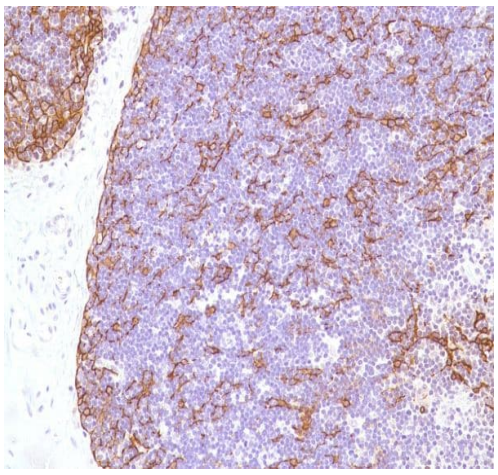
Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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).



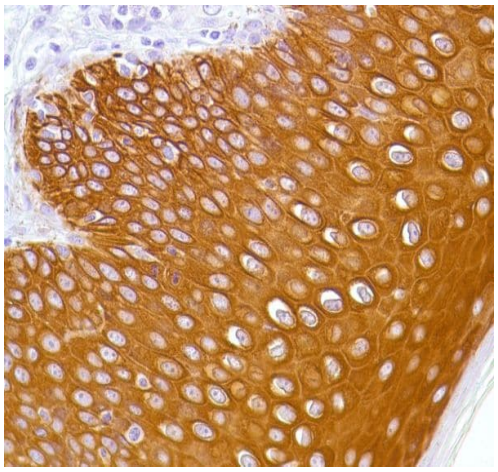
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



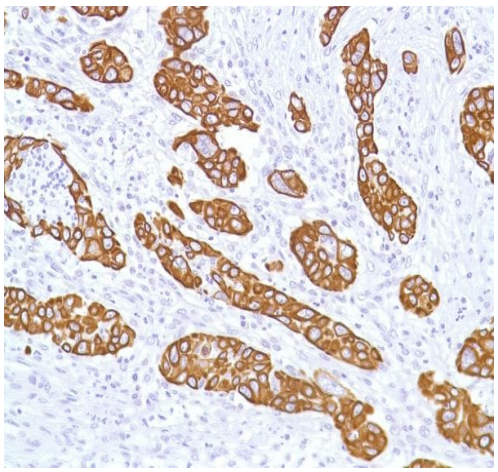
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



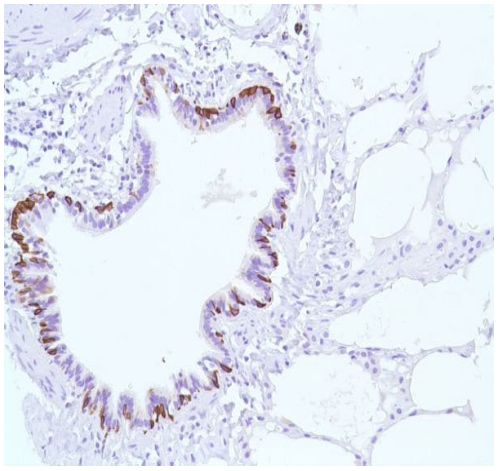
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



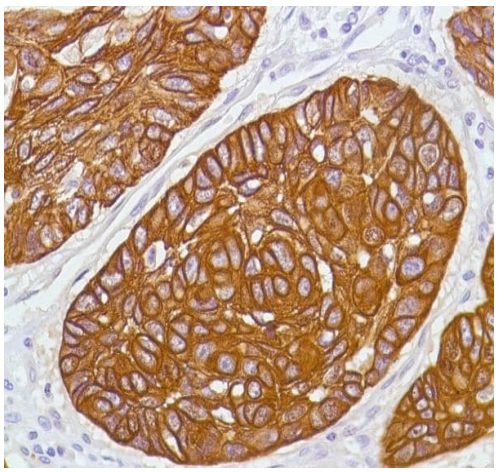
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



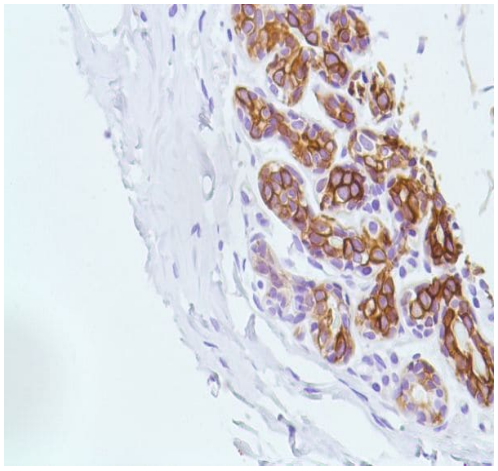
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



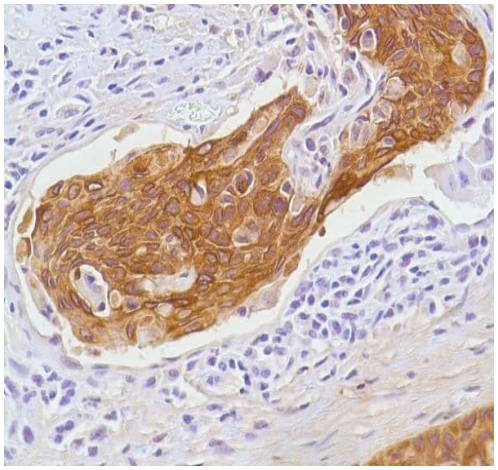
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



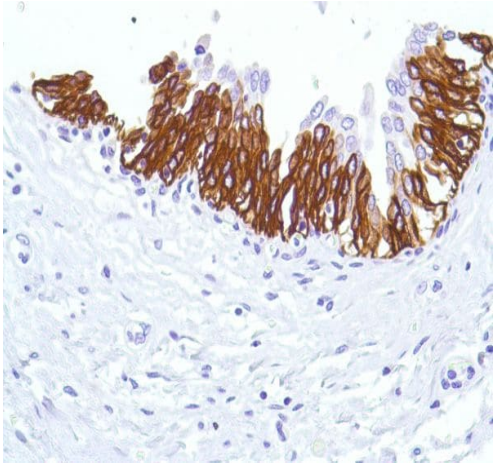
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

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



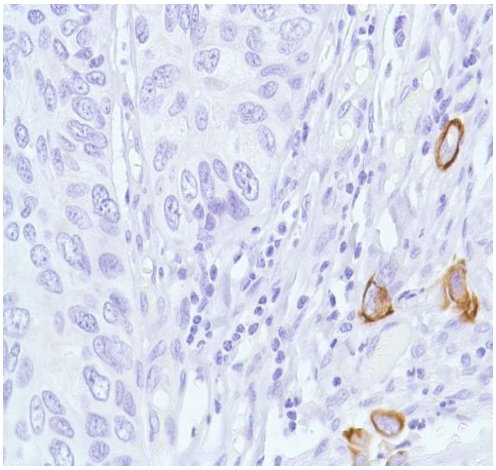
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Formalin-fixed, paraffin-embedded human cervical 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)

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)

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

Anti-Cytokeratin 5 antibody [SP27] (ab64081)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.co.jp/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors