abcam

Product datasheet

Anti-Cytokeratin 5 antibody [SP178] ab183336

Recombinant RabMAb

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Overview

Product name	Anti-Cytokeratin 5 antibody [SP178]
Description	Rabbit monoclonal [SP178] to Cytokeratin 5
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, Flow Cyt (Intra), IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Cow
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human prostate, breast, bladder, tonsil, skin, skin squamous cell carcinoma, rectal carcinoma, lung squamous cell carcinoma, cervix squamous cell carcinoma, and Human cervix carcinoma tissue; Flow Cyt (Intra): A431 cells; ICC: A431 cells.
General notes	There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. **This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.**

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal

Clone number	SP178
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183336 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

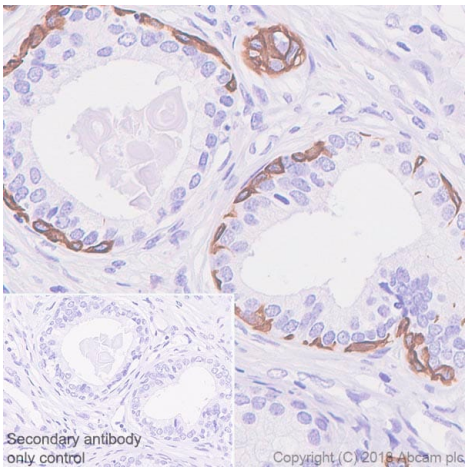
Application	Abreviews	Notes
ICC/IF		1/50.
Flow Cyt (Intra)		1/20 - 1/100. Incubate for 30 minutes at 4°C.
IHC-P		1/100. Deparaffinization: Deparaffinize slides using xylene or xylene alternative and graded alcohols. Antigen Retrieval: Boil tissue section in EDTA buffer, pH 8.0 for 10 min followed by cooling at room temperature for 20 min. Primary Antibody Incubation: Incubate for 10 minutes at room temperature.

Target

Involvement in disease 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

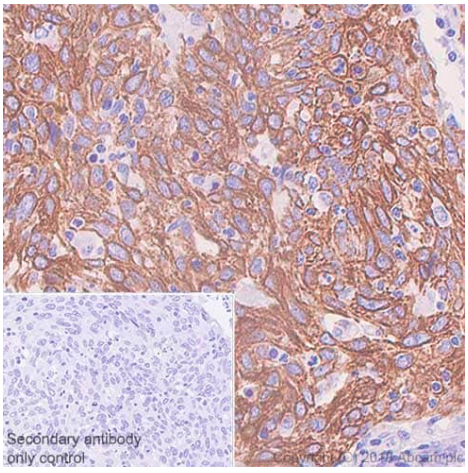
	papules that affect mainly the flexures and great skin folds. Patients usually show no abnormalities of the hair or nails.
Sequence similarities	Belongs to the intermediate filament family.

Images



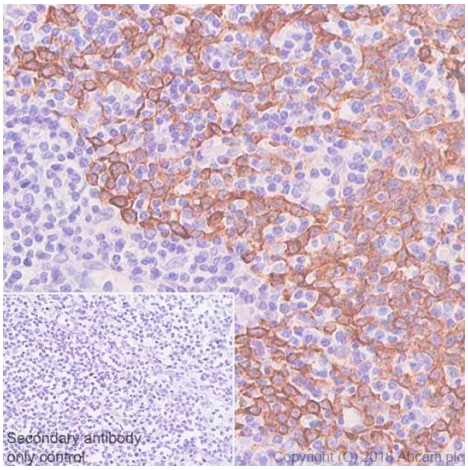
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

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.



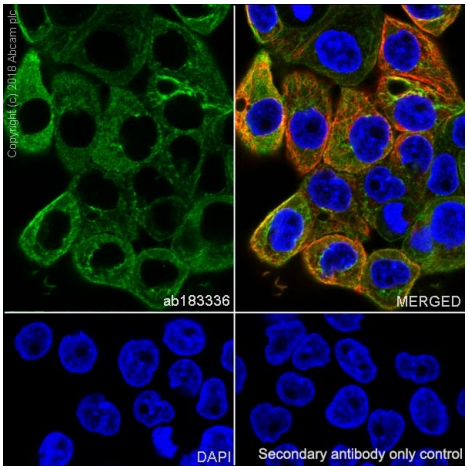
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

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.



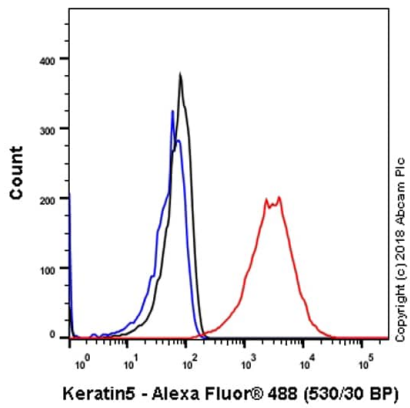
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

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.



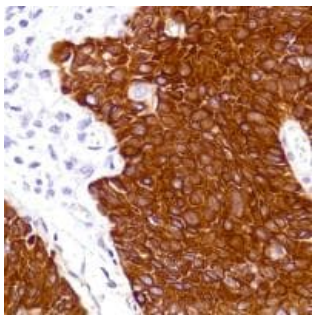
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

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.



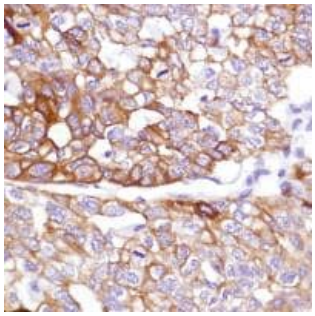
Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Flow Cytometry analysis of A431 (human epidermoid carcinoma epithelial cell) cells labeling Cytokeratin 5 with purified ab183336 at 1/20 dilution (11.75 µg/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.



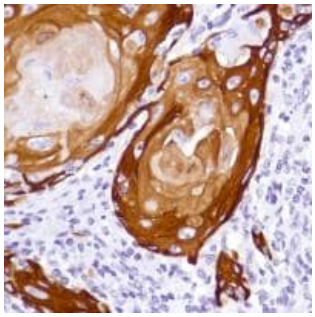
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human cervix squamous cell carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



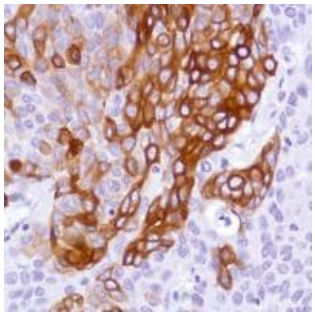
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human lung squamous cell carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



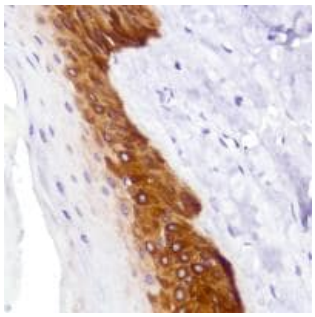
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human skin squamous cell carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



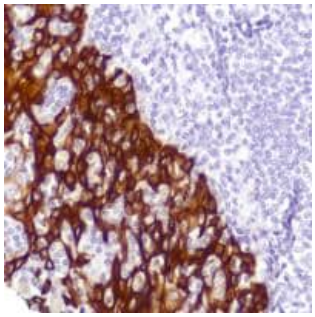
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human rectal carcinoma tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



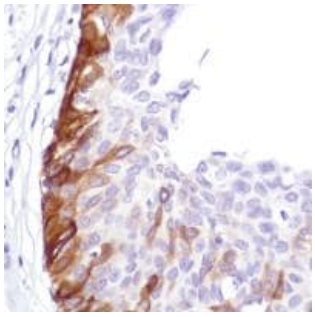
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human skin tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



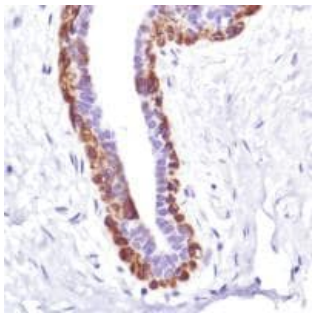
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human tonsil tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



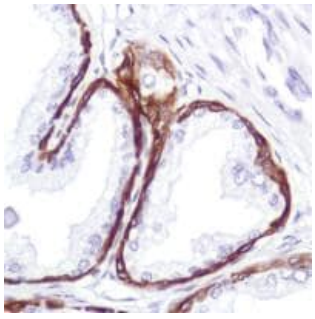
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human bladder tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



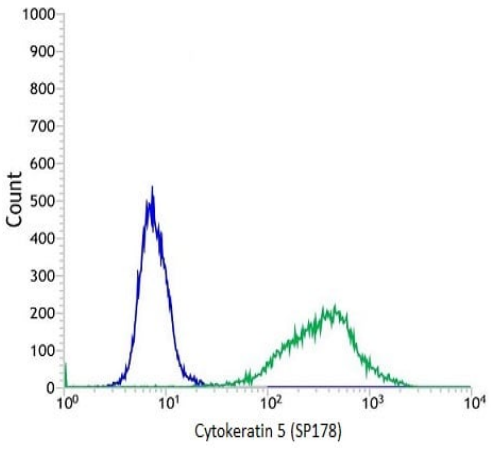
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human breast tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human prostate tissue labeling Cytokeratin 5 with ab183336 at 1/100 dilution.



Flow Cytometry (Intracellular) - Anti-Cytokeratin 5 antibody [SP178] (ab183336)

Flow cytometric analysis of A431 cells labeling Cytokeratin 5 with ab183336 at 1/100 dilution (green) compared to a negative control rabbit IgG (blue).

Anti-Cytokeratin 5 antibody [SP178] (ab183336)

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