abcam

Product datasheet

Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free ab220806

Recombinant RabMAb

8 References 8 Images

Overview

Product name	Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free
Description	Rabbit monoclonal [EP1607IHCY] to Cytokeratin 10 - BSA and Azide free
Host species	Rabbit
Specificity	Some customers have successfully used this antibody to staining Cytokeratin 10 in mouse tissue. Please see Abreviews for more details.
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HaCat and A431 cell lysates, human fetal, rat and mouse skin tissue lysates. IHC-P: Human skin and tonsil tissues and mouse skin tissue. ICC/IF: HaCat cells.
General notes	ab220806 is the carrier-free version of **ab76318**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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 production For more information **see here**.

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1607IHCY
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab220806 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		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **ab199376** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

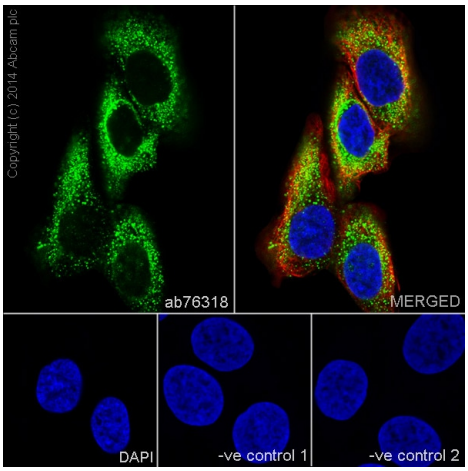
Target

Tissue specificity	Seen in all suprabasal cell layers including stratum corneum.
Involvement in disease	Defects in KRT10 are a cause of bullous congenital ichthyosiform erythroderma (BCIE) [MIM:113800]; also known as epidermolytic hyperkeratosis (EHK) or bullous erythroderma ichthyosiformis congenita of Brocq. BCIE is an autosomal dominant skin disorder characterized by widespread blistering and an ichthyotic erythroderma at birth that persist into adulthood. Histologically there is a diffuse epidermolytic degeneration in the lower spinous layer of the epidermis. Within a few weeks from birth, erythroderma and blister formation diminish and hyperkeratoses develop. Defects in KRT10 are a cause of ichthyosis annular epidermolytic (AEI) [MIM:607602]; also

known as cyclic ichthyosis with epidermolytic hyperkeratosis. AEI is a skin disorder resembling bullous congenital ichthyosiform erythroderma. Affected individuals present with bullous ichthyosis in early childhood and hyperkeratotic lichenified plaques in the flexural areas and extensor surfaces at later ages. The feature that distinguishes AEI from BCIE is dramatic episodes of flares of annular polycyclic plaques with scale, which coalesce to involve most of the body surface and can persist for several weeks or even months.

Sequence similarities Belongs to the intermediate filament family.

Images



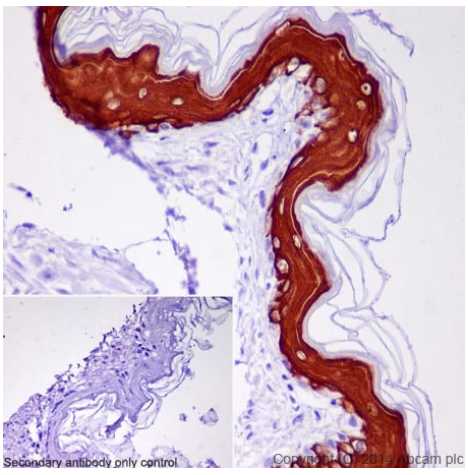
Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

Immunocytochemistry/Immunofluorescence analysis of HACAT cells labelling Cytokeratin 10 with purified **ab76318** at 1/150. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/500) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500) were also used.

Control 1: primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).

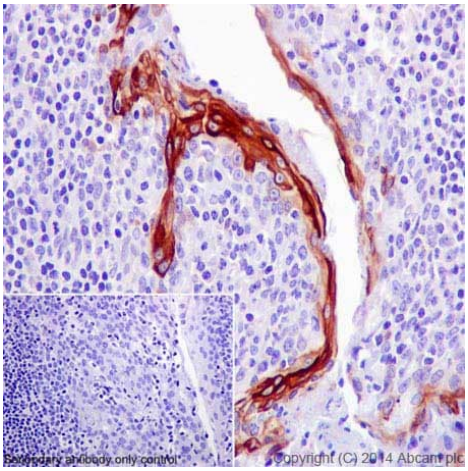
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76318**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse skin tissue labelling Cytokeratin 10 with purified **ab76318** at 1/5000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

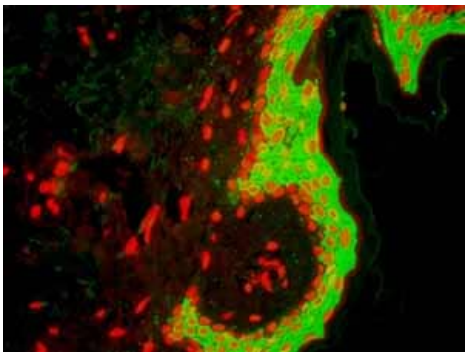
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76318**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling Cytokeratin 10 with purified **ab76318** at 1/5000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76318**).



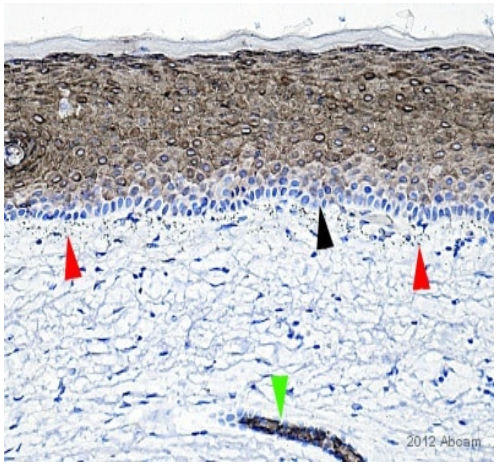
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human normal skin tissue labelling Cytokeratin 10 with unpurified **ab76318**.

Green - CK10, red - PI.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76318**).

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

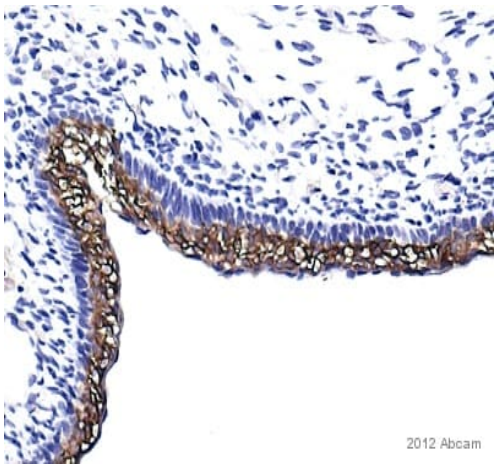


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

This image is courtesy of an Abreview submitted by Carl Hobbs.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human skin tissue labelling Cytokeratin 10 with unpurified **ab76318** at a 1/6000 dilution. The sections were subjected to heat mediated antigen retrieval. The sections were then blocked using 1% BSA for 10 mins at 21°C. **ab76318** was incubated for 2 hours at 21°C. A biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody (1/200).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76318**).

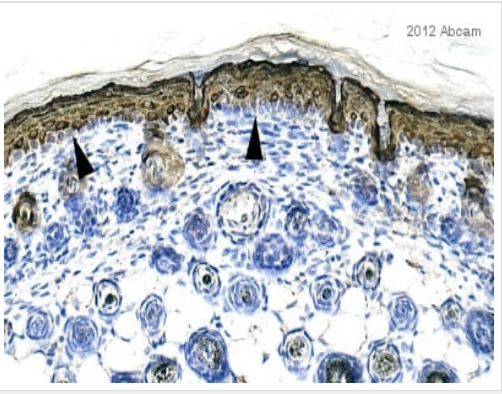


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

This image is courtesy of an Abreview submitted by Carl Hobbs.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat skin tissue labelling Cytokeratin 10 with unpurified **ab76318** at a 1/10000 dilution. The sections were subjected to heat mediated antigen retrieval. The sections were then blocked using 1% BSA for 10 mins at 21°C. **ab76318** was incubated for 2 hours at 21°C. A biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody (1/250).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76318**).

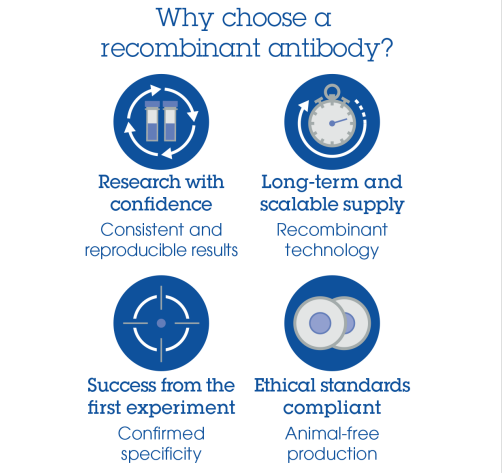


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

This image is courtesy of an Abreview submitted by Carl Hobbs.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse skin tissue labelling Cytokeratin 10 with unpurified **ab76318** at a 1/10000 dilution. The sections were subjected to heat mediated antigen retrieval. The sections were then blocked using 1% BSA for 10 mins at 21°C. **ab76318** was incubated for 2 hours at 21°C. A biotin-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody (1/250).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab76318**).



Anti-Cytokeratin 10 antibody [EP1607IHCY] - BSA and Azide free (ab220806)

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