

Product datasheet

Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker ab76318

Recombinant RabMAb

★★★★★ [14 Abreviews](#) [106 References](#) [13 Images](#)

Overview

Product name	Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker
Description	Rabbit monoclonal [EP1607IHCY] to Cytokeratin 10 - Cytoskeleton Marker
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	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EP1607IHCY
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76318 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)	1/150. For unpurified use at 1/100 - 1/250.
WB		1/10000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa). For unpurified use at 1/50000 - 1/100000.
IHC-P	★★★★★ (10)	1/2500 - 1/5000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/100 - 1/250. ab172730 - 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

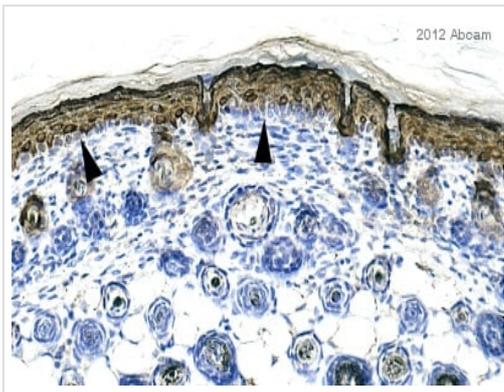
Defects in KRT10 are a cause of bullous congenital ichthyosiform erythroderma (BCIE) [MIM:113800]; also known as epidermolytic hyperkeratosis (EHK) or bullous erythroderma ichthyosiformis congenita of Brocq. BCIE is an autosomal dominant skin disorder characterized by widespread blistering and an ichthyotic 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.

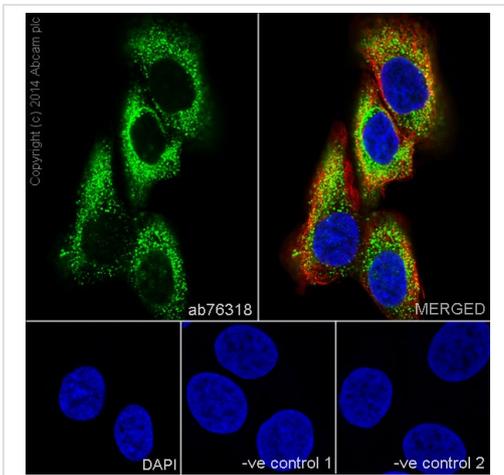
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

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).

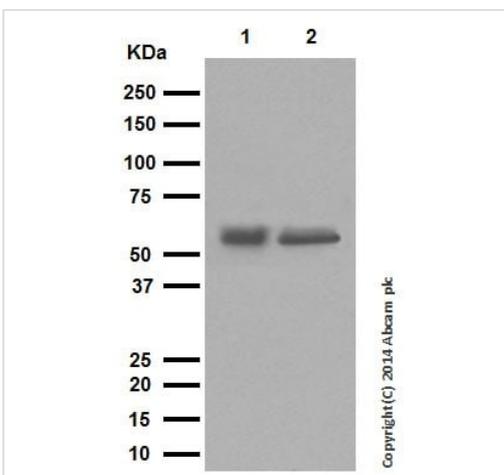


Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

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).



Western blot - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

All lanes : Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker (ab76318) at 1/10000 dilution (purified)

Lane 1 : HACAT cell lysate

Lane 2 : A431 cell lysate

Lysates/proteins at 20 µg per lane.

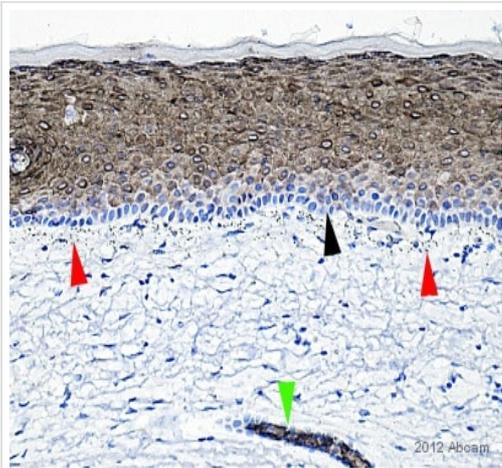
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 60 kDa

Observed band size: 60 kDa

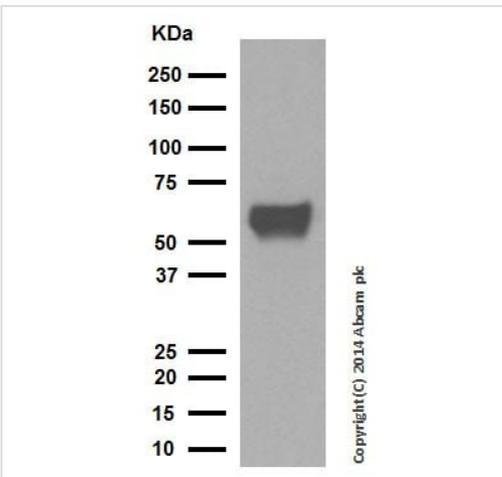
Blocking and diluting buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

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).



Western blot - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker (ab76318) at 1/50000 dilution (purified) + Human fetal skin tissue lysate at 20 µg

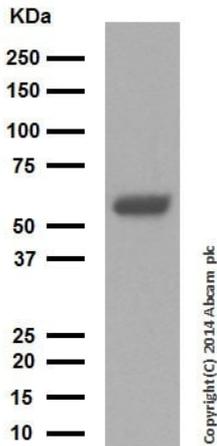
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 60 kDa

Observed band size: 60 kDa

Blocking and diluting buffer: 5% NFDm/TBST.



Western blot - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker (ab76318) at 1/50000 dilution (purified) + Rat skin tissue lysate at 20 µg

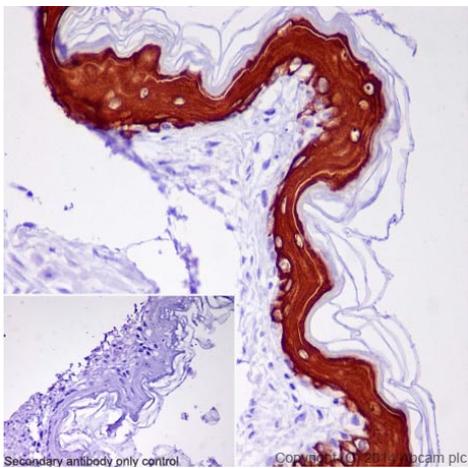
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 60 kDa

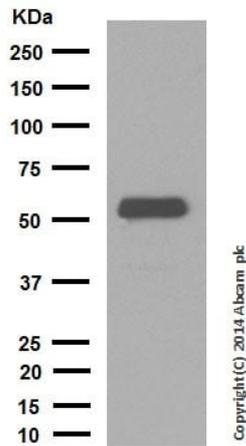
Observed band size: 60 kDa

Blocking and diluting buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker (ab76318)

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.



Western blot - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker (ab76318) at 1/200000 dilution (purified) + Mouse skin tissue lysate at 10 µg

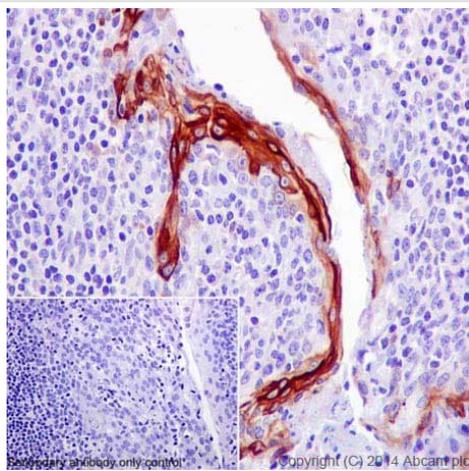
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 60 kDa

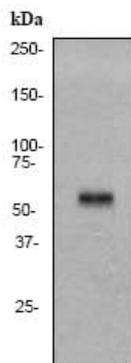
Observed band size: 60 kDa

Blocking and diluting buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker (ab76318)

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.



Western blot - Anti-Cytokeratin 10 antibody
[EP1607IHCY] (ab76318)

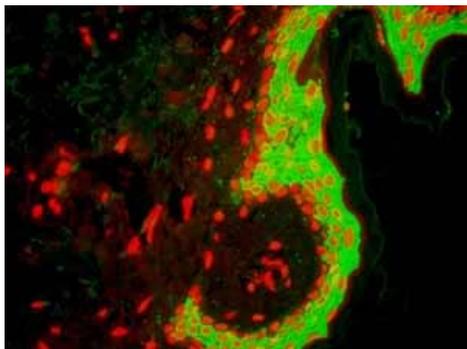
Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker
(ab76318) at 1/100000 dilution + HaCat cell lysate at 10 µg

Secondary

HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 60 kDa

Observed band size: 60 kDa

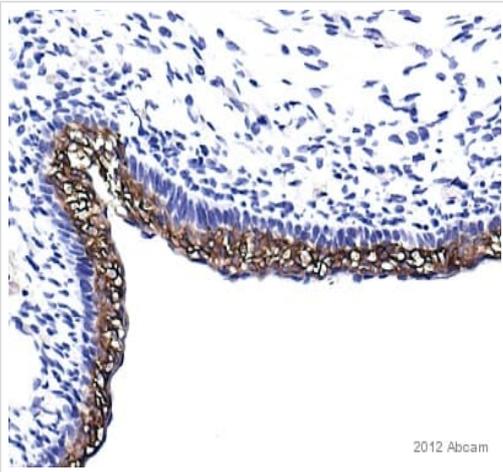


Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Cytokeratin 10 antibody
[EP1607IHCY] - Cytoskeleton Marker (ab76318)

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

Green - CK10, red - PI.

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



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).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 10 antibody [EP1607IHCY] (ab76318)

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Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Cytokeratin 10 antibody [EP1607IHCY] - Cytoskeleton Marker (ab76318)

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