

Product datasheet

Anti-Cytokeratin 13 antibody [EPR3671] ab92551

Recombinant RabMAb

★★★★★ 1 Abreviews 17 References 9 Images

Overview

Product name	Anti-Cytokeratin 13 antibody [EPR3671]
Description	Rabbit monoclonal [EPR3671] to Cytokeratin 13
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, WB, ICC, IHC-P, Flow Cyt Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human Cytokeratin 13 aa 100-200. The exact sequence is proprietary. (Peptide available as ab180923)
Positive control	WB: A431, HACAT or 293T cell lysate. IHC: transitional cell urinary bladder carcinoma tissue. FC: A431 cells

General notes

Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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

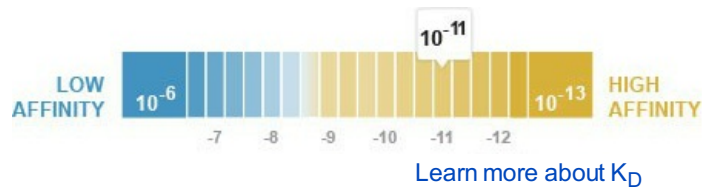
For more information [see here](#).

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

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

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.
Dissociation constant (K_D)	K _D = 1.20 x 10 ⁻¹¹ M



Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3671
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab92551** 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
IHC-Fr	★★★★★	Use at an assay dependent concentration.
WB		1/100000 - 1/500000. Predicted molecular weight: 50 kDa. Can be blocked with Cytokeratin 13 peptide (ab180923) .
ICC		1/100 - 1/250.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
Flow Cyt		1/20.

Application notes Is unsuitable for IP.

Target

Tissue specificity Expressed in some epidermal sweat gland ducts (at protein level) and in exocervix, esophagus and placenta.

Involvement in disease Defects in KRT13 are a cause of white sponge nevus of cannon (WSN) [MIM:193900]. WSN is a rare autosomal dominant disorder which predominantly affects non-cornified stratified squamous epithelia. Clinically, it is characterized by the presence of soft, white, and spongy plaques in the oral mucosa. The characteristic histopathologic features are epithelial thickening, parakeratosis, and vacuolization of the suprabasal layer of oral epithelial keratinocytes. Less frequently the

mucous membranes of the nose, esophagus, genitalia and rectum are involved.

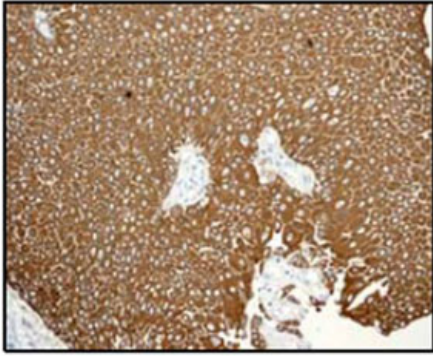
Sequence similarities

Belongs to the intermediate filament family.

Post-translational modifications

O-glycosylated; glycans consist of single N-acetylglucosamine residues.

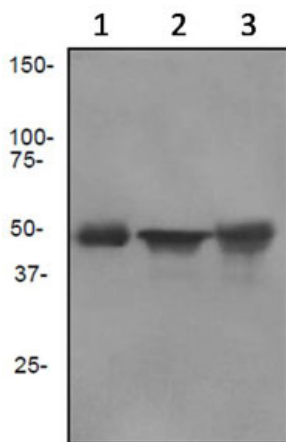
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 at 1/100 dilution staining Cytokeratin 13 in formalin-fixed, paraffin-embedded human transitional cell urinary bladder carcinoma tissue by immunohistochemistry. Detection: DAB staining.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Western blot - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

All lanes : Anti-Cytokeratin 13 antibody [EPR3671] (ab92551) at 1/100000 dilution

Lane 1 : A431 cell lysate

Lane 2 : HACAT cell lysate

Lane 3 : 293T cell lysate

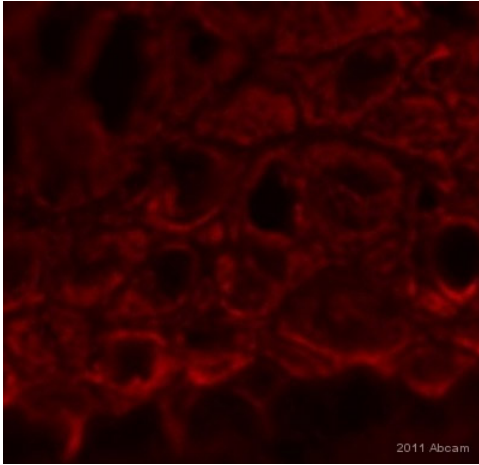
Lysates/proteins at 10 µg per lane.

Secondary

Lanes 1-2 : HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

Lane 3 : HRP labelled goat anti-Rabbit IgG at 1/2000 dilution

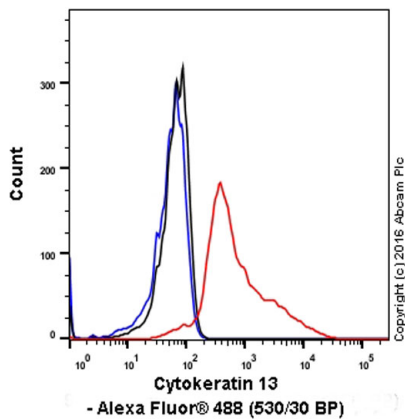
Predicted band size: 50 kDa



Immunohistochemistry (Frozen sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

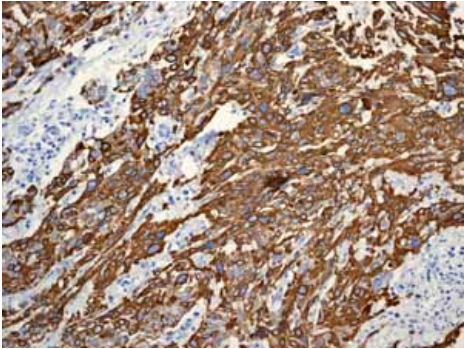
This image is courtesy of an anonymous Abreview

ab92551 staining Cytokeratin 13 in Human vaginal epithelium tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with paraformaldehyde, permeabilized with 0.2% Triton in PBS and blocked with 1% fish skin gelatin for 30 minutes at 25°C. Samples were incubated with primary antibody (1/200) for 1 hour at 25°C. An Alexa Fluor®594-conjugated Goat anti-rabbit polyclonal (1/1000) was used as the secondary antibody.



Flow Cytometry - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

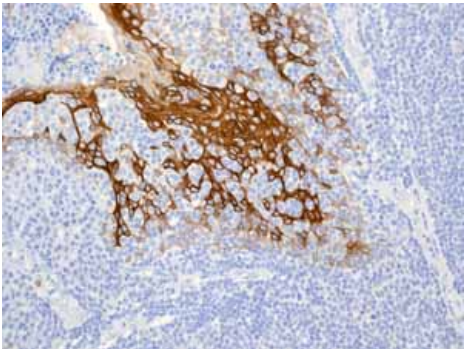
Flow Cytometry analysis of A431 (human epidermoid carcinoma) cells labeling Cytokeratin 13 with purified ab92551 at 1/20 dilution (red). The secondary antibody was Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution. A Rabbit monoclonal IgG (Black) was used as the isotype control and cells without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 showing positive staining in Cervical human carcinoma tissue.

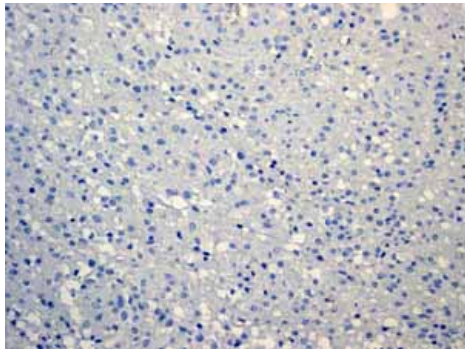
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 showing positive staining in Normal human tonsil squamous cells tissue.

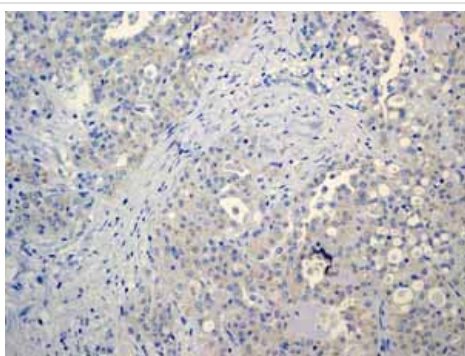
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 showing negative staining in human Glioma tissue.

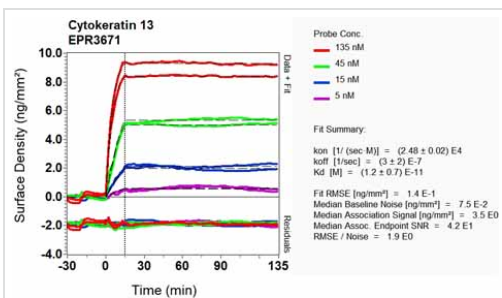
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 showing negative staining in human Breast carcinoma tissue.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Other - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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