

Product datasheet

Anti-Cytokeratin 13 antibody [EPR3671] ab92551

KO VALIDATED Recombinant RabMAB

★★★★★ 1 Abreviews 30 References 11 Images

Overview

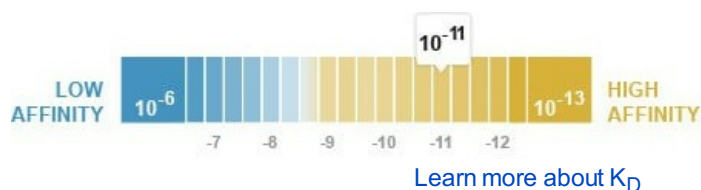
Product name	Anti-Cytokeratin 13 antibody [EPR3671]
Description	Rabbit monoclonal [EPR3671] to Cytokeratin 13
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt (Intra), ICC, IHC-P Unsuitable for: IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse
Immunogen	Synthetic 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 Flow Cyt (intra): A431 cells ICC: A431 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> <p>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.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</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.

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 (glycerin, glycerine), 0.5% BSA

Purity Protein A purified

Clonality Monoclonal

Clone number EPR3671

Isotype IgG

Applications

The Abpromise guarantee 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
WB		1/100000 - 1/500000. Predicted molecular weight: 50 kDa. Can be blocked with Cytokeratin 13 peptide (ab180923) .
Flow Cyt (Intra)		1/20.
ICC		1/500.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

Application notes Is unsuitable for IP.

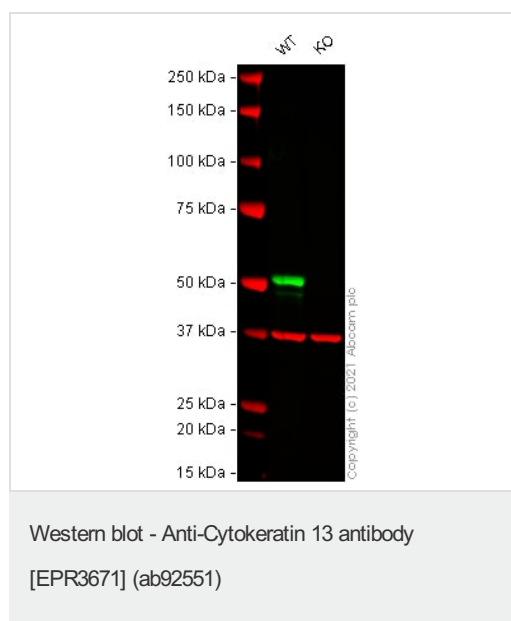
Target

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.

Images



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

Lane 1 : Wild-type A431 cell lysate

Lane 2 : KRT13 knockout A431 cell lysate

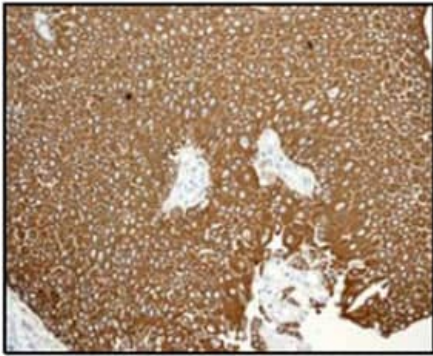
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 50 kDa

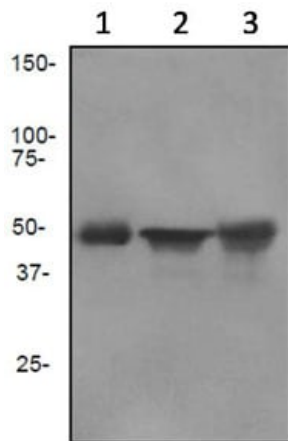
Observed band size: 51 kDa

False colour image of Western blot: Anti-Cytokeratin 13 antibody [EPR3671] staining at 1/100000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (ab8245) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab92551 was shown to bind specifically to Cytokeratin 13. A band was observed at 51 kDa in wild-type A431 cell lysates with no signal observed at this size in Krt13 knockout cell line ab269483 (knockout cell lysate ab269647). To generate this image, wild-type and Krt13 knockout A431 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed (ab216776) at 1/20000 dilution.



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. Antigen retrieval was heat mediated 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

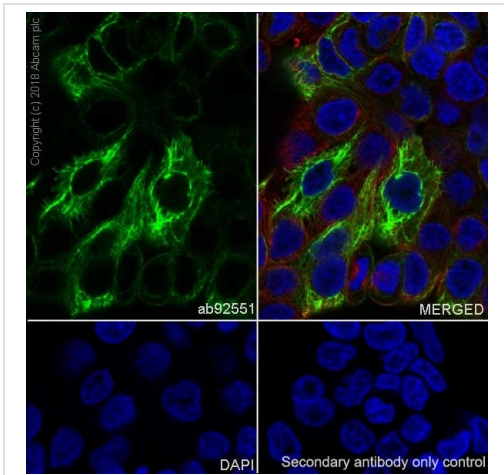
Lysates/proteins at 10 μ g per lane.

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

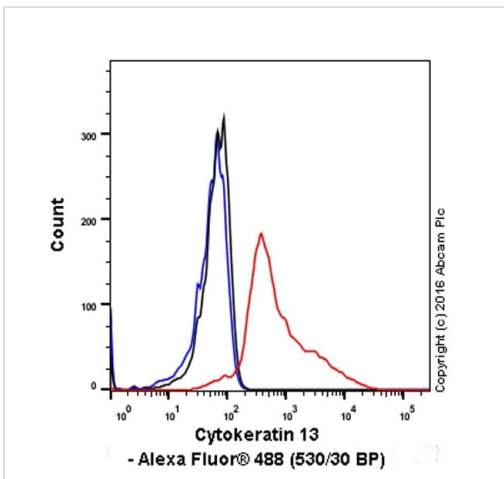
Predicted band size: 50 kDa



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

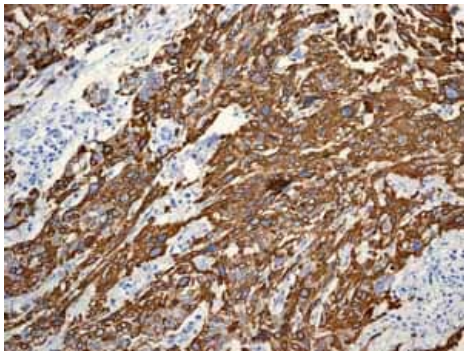
Immunocytochemistry analysis of A431 (human epidermoid carcinoma epithelial cell) cells labeling Cytokeratin 13 with ab92551 at 1/500 (4 µg/mL). Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 (2.5 µg/mL) was used to counterstain the cells. ab150077 AlexaFluor®488 Goat anti-Rabbit at 1/1000 (2 µg/mL) was used as the secondary antibody. DAPI (blue) was used as nuclear counterstain.

Confocal image showing cytoplasmic staining in A431 cells.



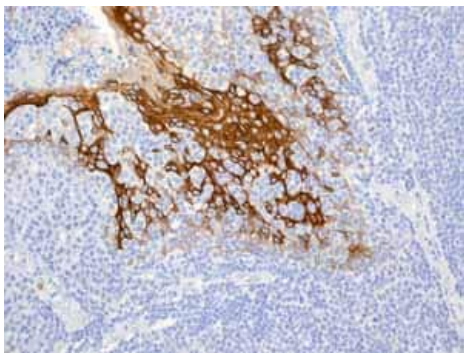
Flow Cytometry (Intracellular) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

Intracellular 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.



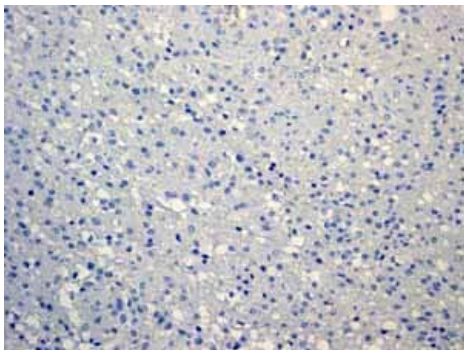
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 showing positive staining in Cervical human carcinoma tissue. Antigen retrieval was heat mediated via the pressure cooker method before commencing with IHC staining protocol.



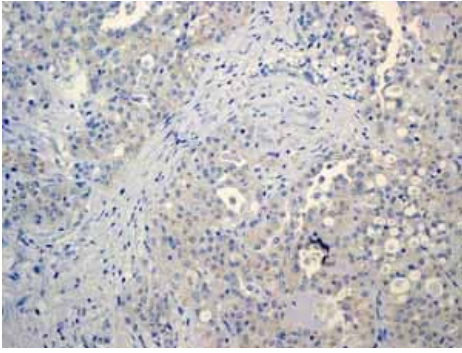
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 showing positive staining in Normal human tonsil squamous cells tissue. Antigen retrieval was heat mediated via the pressure cooker method before commencing with IHC staining protocol.



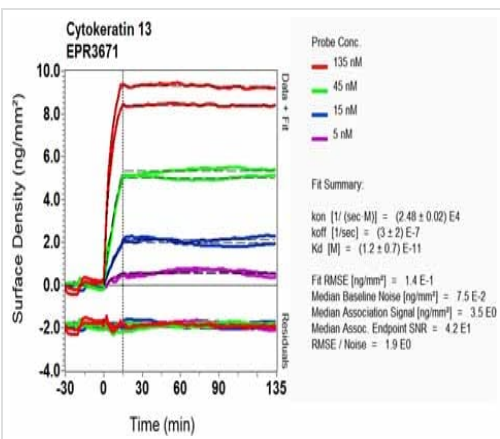
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)

ab92551 showing negative staining in human Glioma tissue. Antigen retrieval was heat mediated 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. Antigen retrieval was heat mediated via the pressure cooker method before commencing with IHC staining protocol.




OI-RD Scanning - Anti-Cytokeratin 13 antibody [EPR3671] (ab92551)


Equilibrium dissociation constant (K_D)


Learn more about K_D


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

Why choose a recombinant antibody?

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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 13 antibody [EPR3671] (ab92551)

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

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