abcam

Product datasheet

Anti-Cytokeratin 13 antibody [EPR3672] ab133340

KO VALIDATED Recombinant RabMAb

2 References 8 Images

Overview

Product name	Anti-Cytokeratin 13 antibody [EPR3672]
Description	Rabbit monoclonal [EPR3672] to Cytokeratin 13
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P **Unsuitable for:** Flow Cyt or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human squamous cell cervical carcinoma tissue; Human transitional cell carcinoma of urinary bladder tissue; A431 and HACAT cell lysates
General notes	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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3672

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133340 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		1/2000 - 1/10000. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt or IP.

Target

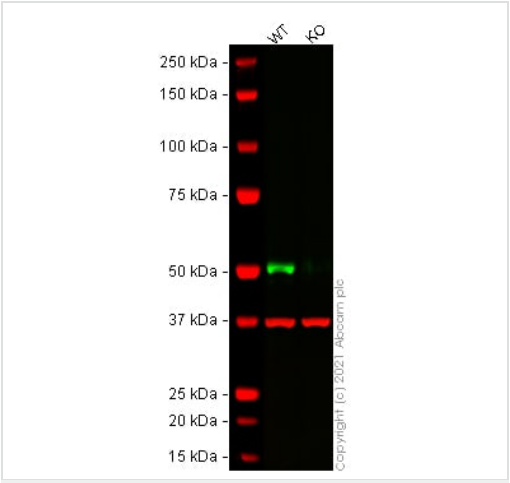
Tissue specificity Expressed in some epidermal sweat gland ducts (at protein level) and in exocervix, esophagus and placenta.

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



Western blot - Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

All lanes : Anti-Cytokeratin 13 antibody [EPR3672] (ab133340) at 1/2000 dilution

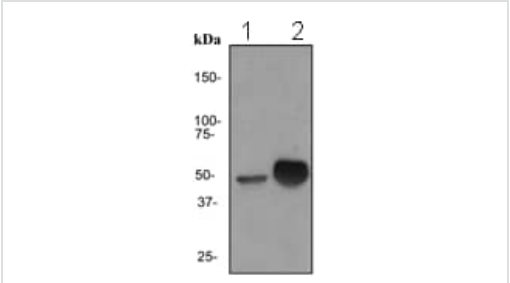
Lane 1 : Wild-type A431 cell lysate
Lane 2 : KRT13 knockout A431 cell lysate

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 [EPR3672] staining at 1/2000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab133340 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.



Western blot - Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

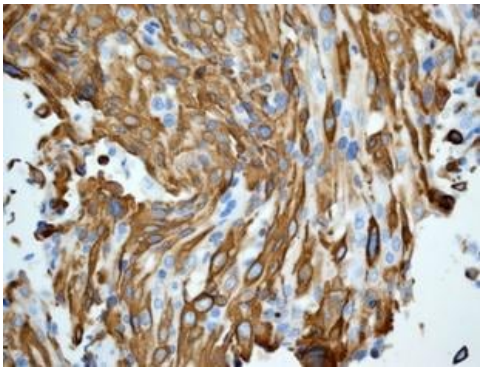
All lanes : Anti-Cytokeratin 13 antibody [EPR3672] (ab133340) at 1/2000 dilution

Lane 1 : A431 cell lysate
Lane 2 : HACAT cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

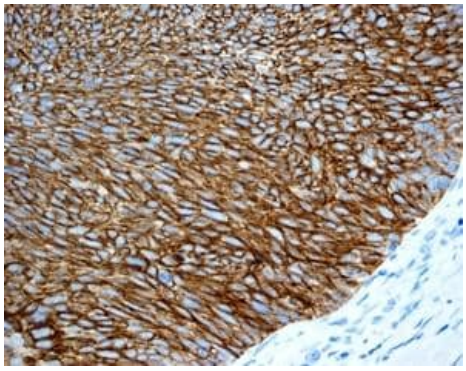
Predicted band size: 50 kDa
Observed band size: 50 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

Immunohistochemical analysis of Cytokeratin 13 in formalin fixed, paraffin embedded Human squamous cell cervical carcinoma tissue stainied with ab133340 at a 1/100 dilution.

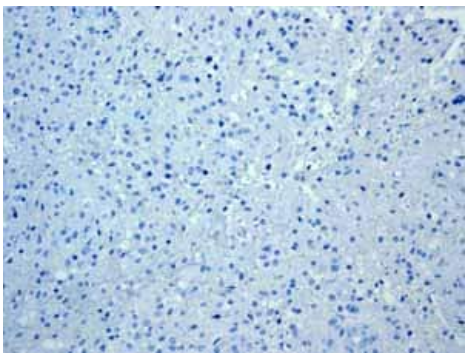
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

Immunohistochemical analysis of Cytokeratin 13 in formalin fixed, paraffin embedded Human transitional cell carcinoma of urinary bladder tissue stainied with ab133340 at a 1/100 dilution.

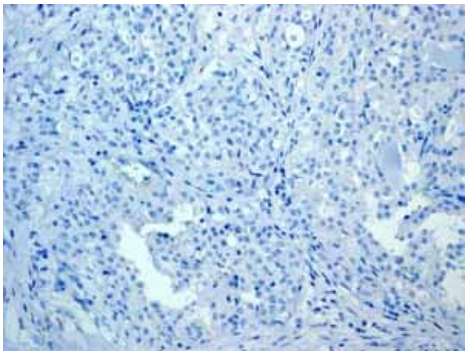
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

Immunohistochemical analysis of paraffin embedded Human Glioma tissue using ab133340 showing -ve staining.

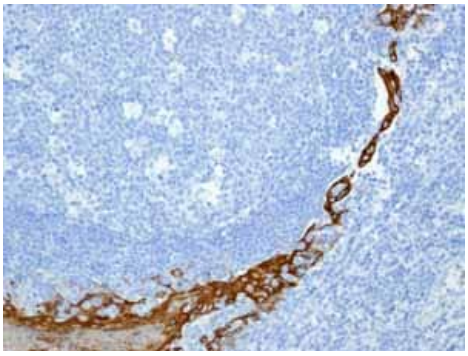
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

Immunohistochemical analysis of paraffin embedded Human Breast carcinoma tissue using ab133340 showing -ve staining.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

Immunohistochemical analysis of paraffin embedded normal Human tonsil squamous cells tissue using ab133340 showing +ve staining.

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

Anti-Cytokeratin 13 antibody [EPR3672] (ab133340)

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