


Product datasheet

Anti-Cytokeratin 4 antibody [EPR1598] α b92465

Recombinant RabMAb

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Overview

Product name	Anti-Cytokeratin 4 antibody [EPR1598]
Description	Rabbit monoclonal [EPR1598] to Cytokeratin 4
Host species	Rabbit
Specificity	The immunogen shares high homology with other cytokeratins like cytokeratin-3(93%), cytokeratin-79(85.7%) and cytokeratin-2 oral(85.7%) etc.
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Synthetic peptide corresponding to Human Cytokeratin 4.
Positive control	WB: A431 and Human uterus cell lysates IHC-P: Human tonsil tissue ICC/IF: 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>Mouse: 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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

	culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR1598
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92465 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		
IHC-P		
ICC/IF		

Application notes

ICC/IF: 1/100 - 1/250.
IHC-P: 1/100 - 1/250. Antigen retrieval is recommended before commencing with IHC staining protocol. The use of an HRP/AP polymerized secondary antibody is recommended.
WB: 1/1000 - 1/10,000. Predicted molecular weight: 57 kDa.

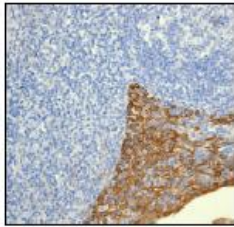
Is unsuitable for Flow Cyt or IP.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Tissue specificity	Detected in the suprabasal layer of the stratified epithelium of the esophagus, exocervix, vagina, mouth and lingual mucosa, and in cells and cell clusters in the mucosa and serous gland ducts of the esophageal submucosa (at protein level). Expressed widely in the exocervix and esophageal epithelium, with lowest levels detected in the basal cell layer.
Involvement in disease	Defects in KRT4 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.
Form	Localisation: Intermediate filament (Cytoskeleton).

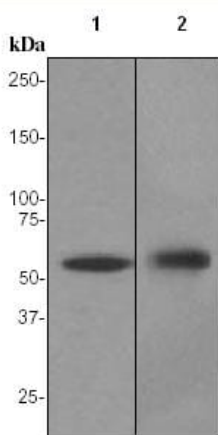
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 4 antibody [EPR1598] (ab92465)

ab92465, at a 1/100 dilution, staining Cytokeratin 4 in paraffin embedded Human tonsil tissue by Immunohistochemistry. Note positive staining of squamous cells.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-Cytokeratin 4 antibody [EPR1598] (ab92465)

All lanes : Anti-Cytokeratin 4 antibody [EPR1598] (ab92465) at 1/1000 dilution

Lane 1 : A431 cell lysate

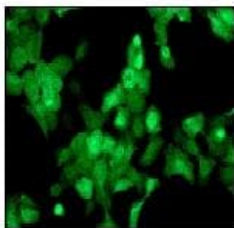
Lane 2 : Human uterus cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 57 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Cytokeratin 4 antibody [EPR1598] (ab92465)

Immunofluorescent staining of A431 cells, using ab92465 at a 1/100 dilution.

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 4 antibody [EPR1598] (ab92465)

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