

Product datasheet

Anti-Cytokeratin 3/CK-3 antibody [AE5] α b68260

Recombinant

★★★★★ [2 Abreviews](#) [27 References](#) [2 Images](#)

Overview

Product name	Anti-Cytokeratin 3/CK-3 antibody [AE5]
Description	Mouse monoclonal [AE5] to Cytokeratin 3/CK-3
Host species	Mouse
Specificity	This antibody recognizes the 64kD polypeptide (cytokeratin 3 / CK-3) and 55 kDa polypeptide (cytokeratin 12) of rabbit corneal epithelium. It also recognizes bovine snout and lip epithelium, as well as a rabbit corneal cell line. The clone number has been updated from (2Q1040) to (AE5) both clone numbers name the same antibody clone.
Tested applications	Suitable for: IHC-P Unsuitable for: Flow Cyt (Intra), ICC, IP or WB
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC: Human squamous papilloma of cornea tissue
General notes	<p>This product has switched from a hybridoma to recombinant production method on 5th January 2022</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	AE5
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab68260 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-P	★★★★★ (1)	Use a concentration of 0.25 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt (Intra), ICC, IP or WB.

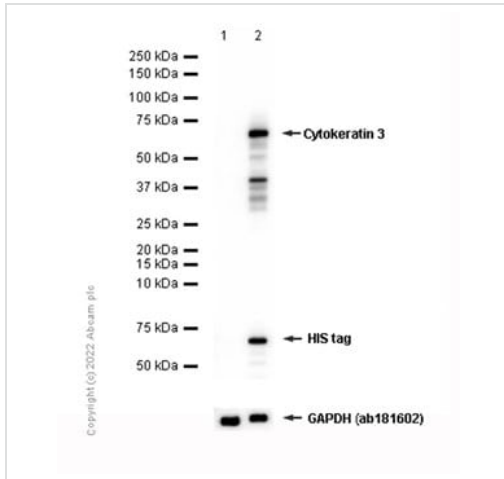
Target

Tissue specificity Cornea specific.

Involvement in disease Defects in KRT3 are a cause of Meesmann corneal dystrophy (MECD) [MIM:122100]; also abbreviated as MCD and known as juvenile epithelial corneal dystrophy of Meesmann. MECD is an autosomal dominant disease that causes fragility of the anterior corneal epithelium. Patients are usually asymptomatic until adulthood when rupture of the corneal microcysts may cause erosions, producing clinical symptoms such as photophobia, contact lens intolerance and intermittent diminution of visual acuity. Rarely, subepithelial scarring causes irregular corneal astigmatism and permanent visual impairment. Histological examination shows a disorganized and thickened epithelium with widespread cytoplasmic vacuolation and numerous small, round, debris-laden intraepithelial cysts.

Sequence similarities Belongs to the intermediate filament family.

Images



Western blot - Anti-Cytokeratin 3/CK-3 antibody [AE5] (ab68260)

All lanes : Anti-Cytokeratin 3/CK-3 antibody [AE5] (ab68260) at 1/5000 dilution

Lane 1 : 293T (Human embryonic kidney epithelial cell) transfected with an empty vector containing a His tag®, whole cell lysate

Lane 2 : 293T (Human embryonic kidney epithelial cell) transfected with Cytokeratin full length expression vector containing a His tag®, whole cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

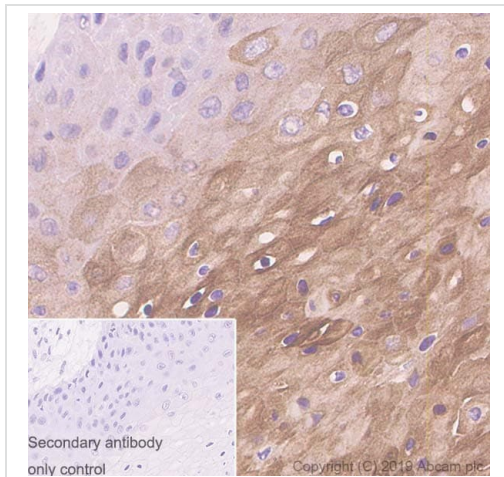
Predicted band size: 64 kDa

Observed band size: 65 kDa

Exposure time: 3 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

ab181602 was used as GAPDH loading control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 3/CK-3 antibody [AE5] (ab68260)

Immunohistochemical analysis of paraffin-embedded human squamous papilloma of cornea tissue labelling Cytokeratin 3 with ab68260 at 1/500 dilution, followed by a ready-to-use secondary antibody. Cytosolic staining on human squamous papilloma of cornea tissue is observed. Counterstained with Hematoxylin. Positive staining on human squamous papilloma of cornea. The section was incubated with ab68260 for 30 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

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