**Product datasheet**

**Anti-Cytokeratin 3/CK-3 antibody [AE5] ab68260**

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**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) 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: ICC/IF, WB, IHC-P, IHC-Fr

**Species reactivity**  
Reacts with: Mouse, Rabbit, Cow, Human

**Immunogen**  
Tissue, cells or virus corresponding to Rabbit Cytokeratin 3/CK-3. Rabbit corneal epithelial keratin.

**General notes**  
Previously labelled as Cytokeratin 3.

**Properties**

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C. Avoid freeze / thaw cycle.

**Storage buffer**  
pH: 7.20  
Preservative: 0.09% Sodium azide  
Constituent: PBS

**Purity**  
Ion Exchange Chromatography

**Clonality**  
Monoclonal

**Clone number**  
AE5

**Isotype**  
IgG1

**Applications**

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.
**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.

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### Application | Abreviews | Notes
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ICC/IF | | Use at an assay dependent concentration.
WB | | Use at an assay dependent concentration. Predicted molecular weight: 54, 65 kDa.
IHC-P | | 1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IHC-Fr | | 1/50.

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### Target

**Tissue specificity**

Cornea specific.

**Involvement in disease**

Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 3% BSA for 1 hour at 20°C. Samples were incubated with primary antibody (1/50 in 3% BSA in PBST (0.5% Tween 20)) for 12 hours at 4°C. An AlexaFluor®594-conjugated goat anti-mouse polyclonal IgG (1/100) was used as the secondary antibody.

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### Images

Immunofluorescence analysis of rabbit cornea cells, staining Cytokeratin 3/CK-3+12 with ab68620.

This image is courtesy of an Abreview submitted by Dr Aaron Gardner
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 3/CK-3 antibody [AE5] (ab68260)

Image cropped from Jing L et al., Molecular Vision, 17, 2263-2271, Fig. 2e Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/.

Immunofluorescent analysis of human ocular surface squamous cell carcinoma tissue, labeling Cytokeratin 3/CK-3+12 with ab68260. Samples were fixed in 4% paraformaldehyde and blocked with 4% BSA with 0.1% Triton X-100. Incubation with ab68260 (diluted 1/50) overnight at 4°C. Samples were then incubated with an Alexa Fluor 488-conjugated secondary antibody for 1 hour, and counterstained with DAPI to visualize nuclei.

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