

Product datasheet

Anti-Cytokeratin AE3 antibody [CK 211 (AE3)] ab115983

Overview

Product name	Anti-Cytokeratin AE3 antibody [CK 211 (AE3)]
Description	Mouse monoclonal [CK 211 (AE3)] to Cytokeratin AE3
Host species	Mouse
Specificity	ab115983 reacts Cytokeratins 1, 2, 3, 4, 5 6 and 8.
Tested applications	Suitable for: IHC-P, IHC-Fr, ICC
Species reactivity	Reacts with: Mouse, Rat, Rabbit, Chicken, Cow, Human, Pig, Monkey
Immunogen	Human epidermal keratin
Positive control	Human skin tissue and lung carcinoma tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 98% PBS, 1% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	CK 211 (AE3)
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab115983** 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		1/50 - 1/100. An antigen retriever like trypsin is required.

Application	Abreviews	Notes
IHC-Fr		1/50 - 1/100.
ICC		Use at an assay dependent concentration.

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.

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