

Product datasheet

Anti-Keratin 12 antibody [EPR1609(2)] ab124975

Recombinant RabMAb

2 References 1 Image

Overview

<b>Product name</b>	Anti-Keratin 12 antibody [EPR1609(2)]
<b>Description</b>	Rabbit monoclonal [EPR1609(2)] to Keratin 12
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> IP
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to residues near the C-terminus of Human Keratin 12 protein (Q99456).
<b>Positive control</b>	Rat eyeball lysate.
<b>General notes</b>	Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMab<sup>®</sup> patents](#)

This product is a recombinant rabbit monoclonal antibody.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR1609(2)
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab124975** 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		1/1000 - 1/10000. Predicted molecular weight: 54 kDa.

**Application notes** Is unsuitable for IP.

## Target

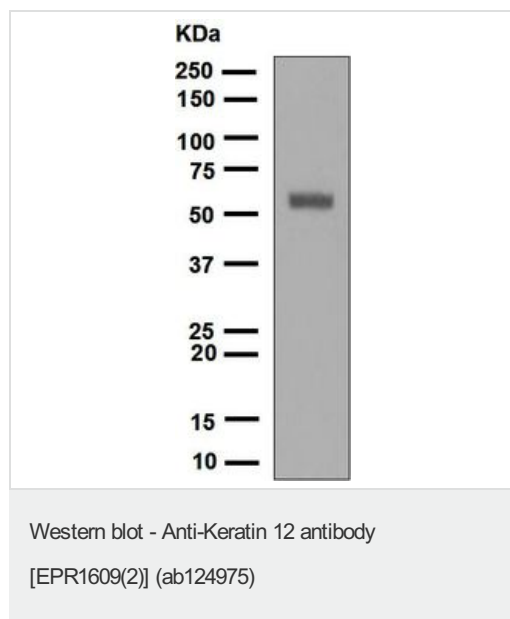
**Function** May play a unique role in maintaining the normal corneal epithelial function. Together with KRT3, essential for the maintenance of corneal epithelium integrity.

**Tissue specificity** Cornea specific.

**Involvement in disease** Defects in KRT12 are a cause of Meesmann corneal dystrophy (MECD) [MIM:122100]; also abbreviated 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



Anti-Keratin 12 antibody [EPR1609(2)]  
(ab124975) at 1/1000 dilution + Rat eyeball  
lysate at 10 µg

**Predicted band size:** 54 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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