

Product datasheet

Anti-CD55 antibody [EPR6689] α b133684

Recombinant RabMAb

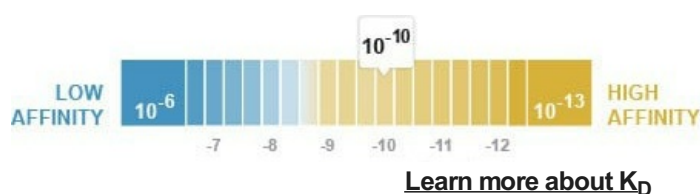
★★★★★ [1 Abreviews](#) [11 References](#) [7 Images](#)

Overview

Product name	Anti-CD55 antibody [EPR6689]
Description	Rabbit monoclonal [EPR6689] to CD55
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549, and HeLa lysates. IHC-P: human cervix carcinoma, lung and placenta tissues.
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, Rat: We have preliminary internal testing data to indicate this antibody may not react with these 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.
Dissociation constant (K_D)	$K_D = 1.25 \times 10^{-10}$ M



Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6689
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133684 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

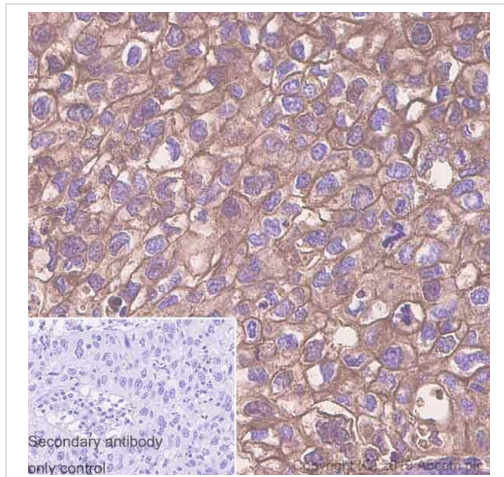
Application	Abreviews	Notes
WB		1/10000 - 1/50000. Predicted molecular weight: 41 kDa.
IHC-P	★★★★★ (1)	1/4000 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use at 1/100 - 1/250 See <u>IHC antigen retrieval protocols</u> .

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

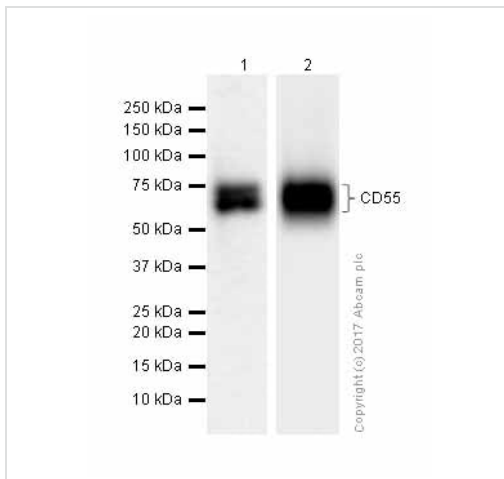
Function	This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and c3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade.
Tissue specificity	Expressed on the plasma membranes of all cell types that are in intimate contact with plasma complement proteins. It is also found on the surfaces of epithelial cells lining extracellular compartments, and variants of the molecule are present in body fluids and in extracellular matrix.
Sequence similarities	Belongs to the receptors of complement activation (RCA) family. Contains 4 Sushi (CCP/SCR) domains.
Domain	The first Sushi domain (SCR1) is not necessary for function. SCR2 and SCR4 provide the proper conformation for the active site on SCR3.
Post-translational modifications	The Ser/Thr-rich domain is heavily O-glycosylated.
Cellular localization	Cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD55 antibody [EPR6689] (ab133684)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervix carcinoma tissue sections labeling CD55 with purified ab133684 at 1/4000 dilution (0.04 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-CD55 antibody [EPR6689] (ab133684)

All lanes : Anti-CD55 antibody [EPR6689] (ab133684) at 1/15000 dilution (Purified)

Lane 1 : A549 (Human lung carcinoma epithelial cell) whole cell lysates

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 15 µg per lane.

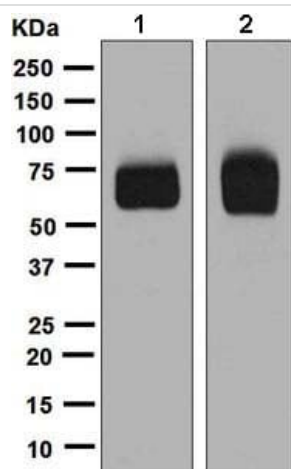
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 41 kDa

Observed band size: 70-75 kDa

CD55 is a 70- to 75-kDa GPI-anchored membrane protein (PMID: 8764022)



Western blot - Anti-CD55 antibody [EPR6689] (ab133684)

All lanes : Anti-CD55 antibody [EPR6689] (ab133684) at 1/10000 dilution ((unpurified))

Lane 1 : A549 cell lysate

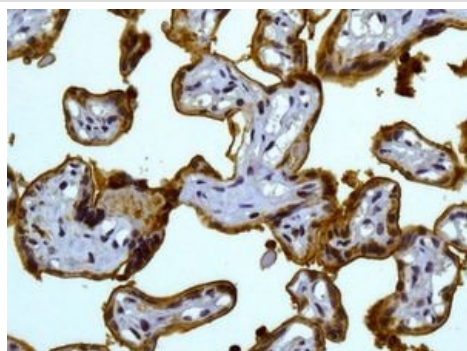
Lane 2 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 41 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD55 antibody [EPR6689] (ab133684)

Immunohistochemical analysis of paraffin-embedded Human placenta tissue labelling CD55 with unpurified ab133684 at 1/100 dilution.

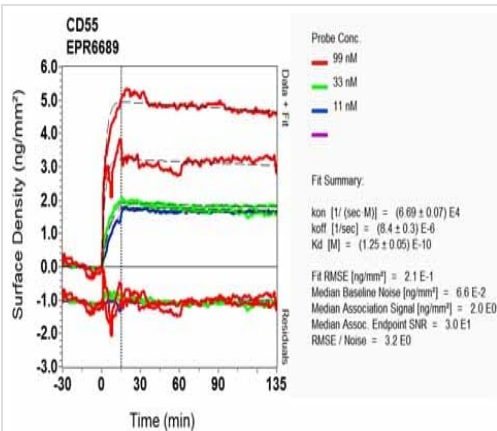
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD55 antibody [EPR6689] (ab133684)

Immunohistochemical analysis of paraffin-embedded Human lung tissue labelling CD55 with unpurified ab133684 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



OL-RD Scanning - Anti-CD55 antibody [EPR6689] (ab133684)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-CD55 antibody [EPR6689] (ab133684)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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