

CD324 (E-Cadherin) Monoclonal Antibody (DECMA-1), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	DECMA-1
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1834417

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	13 Publications

Product Specific Information

Description: The monoclonal antibody DECMA-1 recognizes mouse, human and canine CD324 also known as E-cadherin (Epithelial cadherin) or uvomorulin. Like the other cadherin family members P and N cadherin, E-cadherin is a transmembrane glycoprotein involved in intercellular adhesion. These proteins share a common basic structure. The extracellular portions of the proteins are largely composed of repeating domains, each with two consensus Ca²⁺-binding motifs. The cytoplasmic domain interacts with α-, β-, and γ-catenins and actinins. These catenins connect E-cadherin with the cytoskeleton.

Expression is found in most epidermal cells including melanocytes and keratinocytes. E-cadherin is localized at the intercellular boundaries of epithelial cells in several tissues, and is thought to play a role in maintenance of tissue integrity. Loss of E-cadherin function has been implicated in the progression of a variety of cancers.

E-Cadherin protein is sensitive to trypsin treatment, so exposure to trypsin should be minimized or avoided.

The monoclonal antibody DECMA-1 has been shown to have functional activity by disrupting adhesion in human, mouse and dog cells.

Applications Reported: This DECMA-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This DECMA-1 antibody has been tested by flow cytometric analysis of canine kidney cell line. Optimal staining is achieved by intracellular staining as protein turnover can result in variable surface staining. This can be used at less

than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

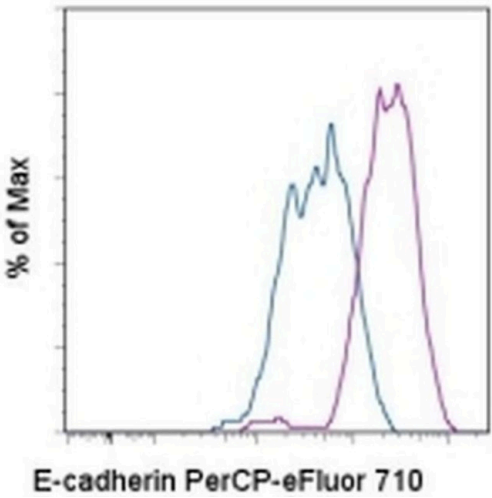
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD324 (E-Cadherin) Monoclonal Antibody (DECMA-1), PerCP-eFluor™ 710, eBioscience™



CD324 (E-Cadherin) Antibody (46-3249-82) in Flow
Staining of the MDCK cell line with staining buffer (autofluorescence) (blue histogram) or 0.5 µg of Anti-Human CD324 (E-Cadherin) PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (13)

Cell reports

Fsp1-Mediated Lineage Tracing Fails to Detect the Majority of Disseminating Cells Undergoing EMT.

"Published figure using CD324 (E-Cadherin) monoclonal antibody (Product # 46-3249-82) in Flow Cytometry"

Authors: Bornes L,van Scheppingen RH,Beerling E,Schelfhorst T,Ellenbroek SIJ,Seinstra D,van Rheenen J

Year
2019

Nature communications

Pluripotency reprogramming by competent and incompetent POU factors uncovers temporal dependency for Oct4 and Sox2.

"Published figure using CD324 (E-Cadherin) monoclonal antibody (Product # 46-3249-82) in Flow Cytometry"

Authors: Malik V,Glaser LV,Zimmer D,Velychko S,Weng M,Holzner M,Arend M,Chen Y,Srivastava Y,Veerapandian V, Shah Z,Esteban MA,Wang H,Chen J,Schöler HR,Hutchins AP,Meijising SH,Pott S,Jauch R

Year
2019

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More applications with references on thermofisher.com

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