

CD326 (EpCAM) Monoclonal Antibody (G8.8), PE-Cyanine5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	G8.8
Conjugate	PE-Cyanine5
Excitation/Emission Max	568/666 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_2848283

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	53 Publications

Product Specific Information

Description: The G8.8 monoclonal antibody reacts with the 40 kDa mouse EpCAM (epithelial cellular adhesion molecule), also known as EGP40 (epithelial glycoprotein 40), 17-1A antigen, TACSTD1 (tumor-associated calcium signal transducer 1), and CD326. The immunogen used to generate the G8.8 antibody was the TE-71 thymic epithelial cell line. CD326 is expressed on the majority of epithelial cells, and is considered a pan-carcinoma antigen. CD326 mediates calcium-independent, homophilic, cell-cell adhesion and may function as a growth factor receptor. The antigen is being used as a target for immunotherapy treatment of human carcinomas. CD326 binds LAIR-1 (CD305) and LAIR-2 (CD306) to inhibit cellular activation and inflammation. This epithelial glycoprotein is now recognized as having an important role in tumor biology.

Applications Reported: This G8.8 antibody has been reported for use in flow cytometric analysis.

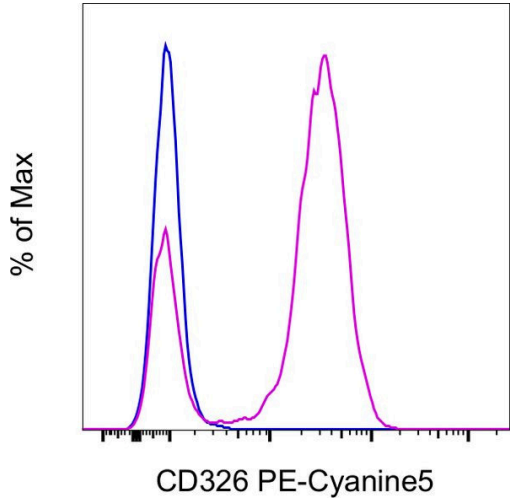
Applications Tested: This G8.8 antibody has been tested by flow cytometric analysis of the TE-71 cell line. This may be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Product Images For CD326 (EpCAM) Monoclonal Antibody (G8.8), PE-Cyanine5, eBioscience™



CD326 (EpCAM) Antibody (15-5791-82) in Flow
TE-71 cells were stained with 0.06 µg of Rat IgG2a kappa Isotype Control, PE-Cyanine5 (Product # 15-4321-82) (blue histogram) or 0.06 µg of CD326 (EpCAM) Monoclonal Antibody, PE-Cyanine5 (purple histogram). Viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 450 (Product # 65-0863-18).

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Immunohistochemistry (Frozen) (1)

Scientific reports	Year 2020
Quantifying drug tissue biodistribution by integrating high content screening with deep-learning analysis.	
"Published figure using CD326 (EpCAM) monoclonal antibody (Product # 15-5791-82) in Immunohistochemistry (Frozen)"	
Authors: Li Z,Xiao Y,Peng J,Locke D,Holmes D,Li L,Hamilton S,Cook E,Myer L,Vanderwall D,Cloutier N,Siddiqui AM,Whitehead P,Bishop R,Zhao L,Cvijic ME	

Immunocytochemistry (2)

STAR protocols	Year 2021
Generation and functional characterization of murine mammary organoids.	
"Published figure using CD326 (EpCAM) monoclonal antibody (Product # 15-5791-82) in Immunocytochemistry"	
Authors: Yip HYK,Papa A	

Frontiers in cell and developmental biology	Year 2021
The Planar Polarity Component VANGL2 Is a Key Regulator of Mechanosignaling.	
"Published figure using CD326 (EpCAM) monoclonal antibody (Product # 15-5791-82) in Immunocytochemistry"	
Authors: Cheong SS,Akram KM,Matellan C,Kim SY,Gaboriau DCA,Hind M,Del Río Hernández AE,Griffiths M,Dean CH	

Flow Cytometry (53)

STAR protocols	Year 2023
Dissociation and flow cytometric isolation of murine intestinal epithelial cells for multi-omic profiling.	
"Published figure using CD326 (EpCAM) monoclonal antibody (Product # 15-5791-82) in Flow Cytometry"	
Authors: Ge Y,Zadeh M,Mohamadzadeh M	

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