

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Pig, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	G8.8
Conjugate	PE
Excitation/Emission Max	565/576 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_953615

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.125 µg/test	77 Publications
Peptide array (Array)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 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.

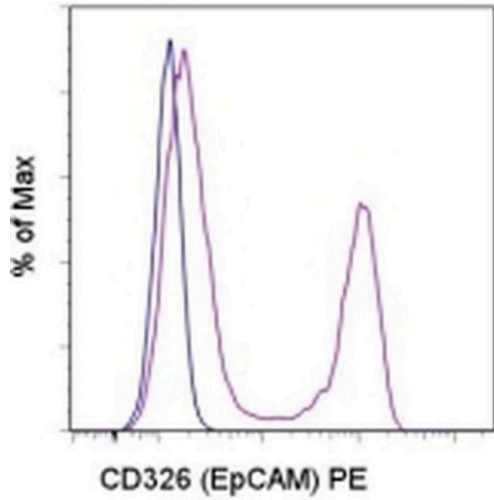
Applications Reported: This G8.8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This G8.8 antibody has been tested by flow cytometric analysis of the TE-71 cell line. This can 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



### CD326 (EpCAM) Antibody (12-5791-82) in Flow

Staining of the TE-71 cell line with 0.06 µg of Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (blue histogram) or 0.06 µg of Anti-Mouse CD326 (EpCAM) PE (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.cn](http://thermofisher.cn)

## Immunohistochemistry (2)

### Developmental cell

#### Pulmonary neuroendocrine cells sense succinate to stimulate myoepithelial cell contraction.

"12-5791-82 was used in Immunohistochemistry to identify a local circuit in which rare PNECs within submucosal glands sense an environmental cue to orchestrate the function of airway glands."

Authors: Yu W, Moninger TO, Rector MV, Stoltz DA, Welsh MJ

Year  
2022

Species  
Pig

### BMC research notes

#### The effects of hedgehog ligand neutralising antibody 5E1 in a mouse model of endometriosis.

"12-5791 was used in Immunohistochemistry to investigate the role of hedgehog signalling in the establishment of endometriosis lesions using 5E1, a hedgehog ligand neutralising antibody, and a mouse model of endometriosis."

Authors: Cousins FL, Farley JK, Kerrigan R, Mukherjee S, Darzi S, Gargett CE, Deane JA

Year  
2020

Species  
Mouse

## Immunocytochemistry (3)

### Cell death & disease

#### Obesity impairs cardiolipin-dependent mitophagy and therapeutic intercellular mitochondrial transfer ability of mesenchymal stem cells.

"12-5791-82 was used in Immunocytochemistry to provide the first comprehensive molecular understanding of impaired mitophagy in obese-derived MSCs and highlight the importance of pharmacological modulation of these cells for therapeutic intervention."

Authors: Sagar S, Faizan MI, Chaudhary N, Singh V, Singh P, Gheware A, Sharma K, Azmi I, Singh VP, Kharya G, Mabalirajan U, Agrawal A, Ahmad T, Sinha Roy S

Year  
2023

Species  
Mouse

### Journal of lipid research

#### ABCG1 regulates pulmonary surfactant metabolism in mice and men.

"Published figure using CD326 (EpCAM) monoclonal antibody (Product # 12-5791-82) in Flow Cytometry"

Authors: de Aguiar Vallim TQ, Lee E, Merriott DJ, Goulbourne CN, Cheng J, Cheng A, Gonen A, Allen RM, Palladino END, Ford DA, Wang T, Baldán Á, Tarling EJ

Year  
2017

Species  
Mouse

[View more ICC/IF references on thermofisher.cn](#)

## More applications with references on thermofisher.cn

Flow (77)

Array (1)

Misc (2)

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