

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

## Product Details

|                             |  |
|-----------------------------|--|
| Size                        | 100 µg   |
| Species Reactivity          | Mouse  |
| Published Species           | Mouse, Human   |
| Host/Isotype                | Rat / IgG2a, kappa   |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | G8.8   |
| Conjugate                   | APC  |
| Excitation/Emission Max     | 651/660 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_2716944   |

| Applications                            | Tested Dilution | Publications    |
|---|-----------------|-----------------|
| Immunohistochemistry (IHC)              | -               | 5 Publications  |
| Immunohistochemistry (Frozen) (IHC (F)) | -               | 1 Publication   |
| Immunocytochemistry (ICC/IF)            | -               | 3 Publications  |
| Flow Cytometry (Flow)                   | 0.125 µg/test   | 96 Publications |
| ChIP assay (ChIP)                       | -               | 1 Publication   |
| Functional Assay (FN)                   | -               | 1 Publication   |
| Miscellaneous PubMed (Misc)             | -               | 1 Publication   |

## 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.

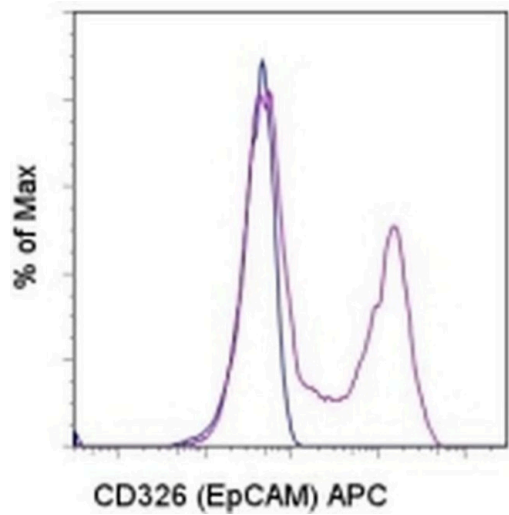
**Applications Tested:** This G8.8 antibody has been tested by flow cytometric analysis of the TE-71 cell line. This can be used at

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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD326 (EpCAM) Monoclonal Antibody (G8.8), APC, eBioscience™**



**CD326 (EpCAM) Antibody (17-5791-82) in Flow**  
Staining of the TE-71 cell line with 0.06 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (blue histogram) or 0.06 µg of Anti-Mouse CD326 (EpCAM) APC (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 450, were used for analysis.

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Immunohistochemistry (5)

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| <p>Science immunology</p> <p><b>T<sub>H</sub>17 cells require ongoing classic IL-6 receptor signaling to retain transcriptional and functional identity.</b></p> <p>"17-5791-82 was used in Immunohistochemistry to find that IL-6 signaling is required for both induction and maintenance of mouse TH17 cells; IL-6R-deficient TH17 cells rapidly lost their TH17 phenotype and did not cause disease in two models of colitis."</p> <p>Authors: Harbour SN,DiToro DF,Witte SJ,Zindl CL,Gao M,Schoeb TR,Jones GW,Jones SA,Hatton RD,Weaver CT</p> | <p>Year<br/>2020</p> <p>Species<br/>Mouse</p>                           |
| <p>eLife</p> <p><b>Transcriptomic and epigenetic regulation of hair cell regeneration in the mouse utricle and its potentiation by Atoh1.</b></p> <p>"17-5791-82 was used in Immunohistochemistry to offer a possible explanation for regenerative differences between sensory organs of the inner ear."</p> <p>Authors: Jen HI,Hill MC,Tao L,Sheng K,Cao W,Zhang H,Yu HV,Llamas J,Zong C,Martin JF,Segil N,Groves AK</p>   | <p>Year<br/>2019</p> <p>Species<br/>Mouse</p> <p>Dilution<br/>1:200</p> |

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Immunohistochemistry (Frozen) (1)

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| <p>Nature</p> <p><b>A Wnt-producing niche drives proliferative potential and progression in lung adenocarcinoma.</b></p> <p>"17-5791 was used in Immunohistochemistry on frozen tissues to elucidate the presence of two distinct subpopulations of lung adenocarcinoma cells which drive proliferation and progression through Wnt signalling."</p> <p>Authors: Tammela T,Sanchez-Rivera FJ,Cetinbas NM,Wu K,Joshi NS,Helenius K,Park Y,Azimi R,Kerper NR,Wesselhoeft RA,Gu X,Schmidt L,Cornwall-Brady M,Yilmaz OH,Xue W,Katajisto P,Bhutkar A,Jacks T</p> | <p>Year<br/>2017</p> <p>Species<br/>Mouse</p> |
|---|---|

Immunocytochemistry (3)

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| <p>STAR protocols</p> <p><b>Generation and functional characterization of murine mammary organoids.</b></p> <p>"Published figure using CD326 (EpCAM) monoclonal antibody (Product # 17-5791-82) in Immunocytochemistry"</p> <p>Authors: Yip HYK,Papa A</p> | <p>Year<br/>2021</p> |
|--|----------------------|

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- Flow (96)
- ChIP (1)
- FN (1)
- Misc (1)

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