# FITC anti-mouse CD326 (Ep-CAM) Antibody

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| **Catalog# / Size** | 118207 / 50 µg<br>118208 / 500 µg |
| **Clone** | G8.8 |
| **Other Names** | CD326, EGP40, MIC18, TROP1, KSA |
| **Isotype** | Rat IgG2a, κ |
| **Description** | EpCAM (CD326) mediates calcium-independent homophilic cell to cell adhesion. It may also function as a growth factor receptor. It is thought to be involved in maintaining cells in position during proliferation. Expression of EpCAM seems to correlate inversely with the level of E-cadherin (CD324). EpCAM is considered important in tumor biology. |

## Product Details

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| **Reactivity** | Mouse |
| **Antibody Type** | Monoclonal |
| **Host Species** | Rat |
| **Immunogen** | TE-71 thymic epithelial cell line |
| **Formulation** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| **Preparation** | The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. |
| **Concentration** | 0.5 mg/ml |
| **Storage & Handling** | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.** |
| **Application** | FC - Quality tested |
| **Recommended Usage** | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per $10^6$ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. |
| **Excitation Laser** | Blue Laser (488 nm) |
| **Application Notes** | Additional reported applications for clone G8.8 (for the relevant formats) include: immunohistochemistry of frozen sections: acetone fixed[1], with or without OCT embedding[2,4]. |

**Application References**

**(PubMed link indicates BioLegend citation)**


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2. Dooley J, et al. 2005. J. Immunol. 175:4331. (FC, IHC)
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4. Gracz AD, et al. 2010. Am J. Physiol Gastrointest Liver Physiol. 298:590. (IHC) PubMed
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**Product Citations**


1. Furstenberg R, et al. 2011. Am J Physiol Gastrointest Liver Physiol. 300:G409. PubMed
2. King J, et al. 2012. Am J Physiol Gastrointest Liver Physiol. 303:443. PubMed
3. Saenz F, et al. 2014. PLoS One. 9:97666. PubMed
4. Cleary A, et al. 2014. Nature. 508:113. PubMed
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6. Bittner-Eddy P, et al. 2016. J Immunol. 197: 1435 - 1446. PubMed
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11. Sato Y, et al. 2018. JCI Insight. 3:. PubMed

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| **RRID** | AB_1134106 (BioLegend Cat. No. 118207)<br>AB_1134107 (BioLegend Cat. No. 118208) |

## Antigen Details

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| **Structure** | 40 kD single-pass type 1 glycoprotein. 293 amino acids, with a 21 aa signal peptide, a 246 aa extracellular domain, a 21 aa transmembrane domain, and a 26 aa cytoplasmic domain. The extracellular domain contains two epidermal growth factor-like repeats. |
| **Distribution** | Expressed on majority of epithelial cell membranes with the exception of adult squamous cells of the skin and a few specific epithelial cell types. |
| **Function** | Mediates calcium-independent homophilic cell-cell adhesion. |
| **Interaction** | CD326 displays hemophilic binding. |
| **Ligand/Receptor** | CD305 (LAIR-1), CD306 (LAIR-2), and Ep-CAM. |
| **Cell Type** | Embryonic Stem Cells, Epithelial cells |
| **Biology Area** | Immunology, Stem Cells |
| **Molecular Family** | Adhesion Molecules, CD Molecules |
| **Antigen References** | 1. Borkowski TA, et al. 1996. Eur. J. Immunol. 26:110.<br>2. Bergsagel PL, et al. 1992. J. Immunol. 148:590. |
| **Gene ID** | 17075 |

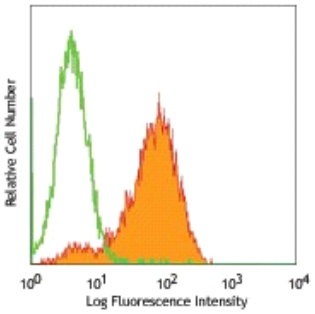
## Related Protocols

Cell Surface Flow Cytometry Staining Protocol

## Other Formats

APC anti-mouse CD326 (Ep-CAM), Purified anti-mouse CD326 (Ep-CAM), Biotin anti-mouse CD326 (Ep-CAM), PE anti-mouse CD326 (Ep-CAM), Alexa Fluor® 488 anti-mouse CD326 (Ep-CAM), Alexa Fluor® 647 anti-mouse CD326 (Ep-CAM), PE/Cyanine7 anti-mouse CD326 (Ep-CAM), APC/Cyanine7 anti-mouse CD326 (Ep-CAM), PerCP/Cyanine5.5 anti-mouse CD326 (Ep-CAM), Alexa Fluor® 594 anti-mouse CD326 (Ep-CAM), Brilliant Violet 421™ anti-mouse CD326 (Ep-CAM), Brilliant Violet 605™ anti-mouse CD326 (Ep-CAM), Purified anti-mouse CD326 (Ep-CAM) (Maxpar® Ready), APC/Fire™ 750 anti-mouse CD326 (Ep-CAM), Brilliant Violet 711™ anti-mouse CD326 (Ep-CAM), Brilliant Violet 510™ anti-mouse CD326 (Ep-CAM), PE/Dazzle™ 594 anti-mouse CD326 (Ep-CAM), TotalSeq™-A0449 anti-mouse CD326 (Ep-CAM), Alexa Fluor® 700 anti-mouse CD326 (Ep-CAM), TotalSeq™-C0449 anti-mouse CD326 (Ep-CAM), Brilliant Violet 785™ anti-mouse CD326 (Ep-CAM), TotalSeq™-B0449 anti-mouse CD326 (Ep-CAM), Brilliant Violet 650™ anti-mouse CD326 (Ep-CAM)

## Product Data




TE-71 (mouse thymic epithelial stromal cell line) stained with G8.8 FITC

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