

PE/Cyanine7 anti-mouse CD326 (Ep-CAM) Antibody

Catalog# / Size	118215 / 25 µg 118216 / 100 µg
Clone	G8.8
Regulatory Status	RUO
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

Verified 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 PE/Cyanine7 under optimal conditions.
Concentration	0.2 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) Green Laser (532 nm)/Yellow-Green Laser (561 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} , and spatial biology (IBEX) ^{13,14} .
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	<ol style="list-style-type: none"> Farr A, <i>et al.</i> 1991. <i>J. Histochem. Cytochem.</i> 39:645. (FC, IHC) Dooley J, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:4331. (FC, IHC) Hinterberger M, <i>et al.</i> 2010. <i>Nat. Immunol.</i> 11:512. (FC) PubMed Gracz AD, <i>et al.</i> 2010. <i>Am J. Physiol Gastrointest Liver Physiol.</i> 298:590. (IHC) PubMed Nudel I, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:891. PubMed Morimoto H, <i>et al.</i> 2012. <i>Biol Reprod.</i> 86:148. PubMed Ishii K, <i>et al.</i> 2012. <i>Development.</i> 139:1734. PubMed Takehashi M, <i>et al.</i> 2012. <i>Biol Reprod.</i> 86:178. PubMed Murakami R, <i>et al.</i> 2013. <i>PLoS One.</i> 8:73270. PubMed Taguchi K, <i>et al.</i> 2014. <i>Mol Cell Biol.</i> 34:900. PubMed Hirokawa Y, <i>et al.</i> 2014. <i>Am J Physiol Gastrointest Liver Physiol.</i> 306:547. PubMed
(PubMed link indicates BioLegend citation)	

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RRID AB_1236477 (BioLegend Cat. No. 118215)
 AB_1236471 (BioLegend Cat. No. 118216)

Antigen Details

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, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:110. 2. Bergsagel PL, <i>et al.</i> 1992. <i>J. Immunol.</i> 148:590.
Gene ID	17075

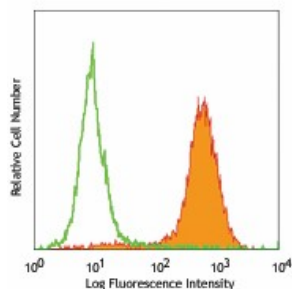
Related Protocols

[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), FITC 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), PE/Cyanine5 anti-mouse CD326 (Ep-CAM)

Product Data



TE-71 (mouse thymic epithelial stromal cell line) stained with G8.8 PE/Cyanine7

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