

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

## Product Details

Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	G8.8
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_953624

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	18 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	3 Publications
Immunocytochemistry (ICC/IF)	-	11 Publications
Flow Cytometry (Flow)	0.125 µg/test	76 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
ChIP assay (ChIP)	-	1 Publication
Affinity Purification (AP)	-	1 Publication
In vitro Assay (IV)	-	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:** The G8.8 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections.

**Applications Tested:** This G8.8 antibody has been tested by flow cytometric analysis of TE-71 cells, a murine thymic epithelial 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

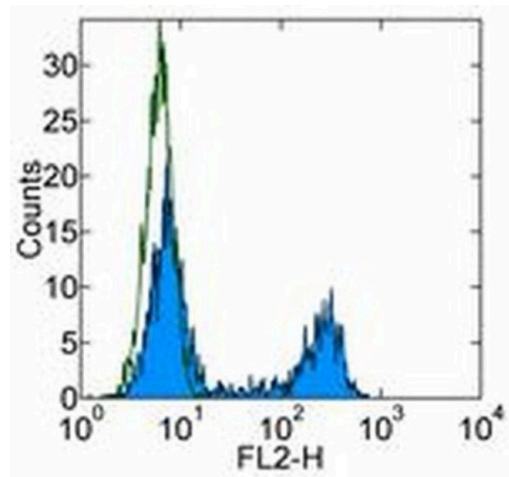
stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

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



**CD326 (EpCAM) Antibody (14-5791-81) in Flow**

Staining of the TE-71 thymic epithelial cell line with 0.06  $\mu$ g of Rat IgG2a kappa Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.06  $\mu$ g of Anti-Mouse CD326 (EpCAM) Purified (filled histogram) followed by F (ab')<sub>2</sub> Anti-Rat IgG PE (Product # 12-4822). Total viable cells were used for analysis.

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Western Blot (2)

<p>Stem cell reports</p> <p><b>H3K9 Demethylases JMJD1A and JMJD1B Control Prospermatogonia to Spermatogonia Transition in Mouse Germline.</b></p> <p>"14-5791 was used in Western Blotting to investigate if perinatal prospermatogonia have extremely low levels of di-methylated H3K9 (H3K9me2) and if H3K9 demethylases, JMJD1A and JMJD1B, catalyse H3K9me2 demethylation in perinatal prospermatogonia."</p> <p>Authors: Kuroki S, Maeda R, Yano M, Kitano S, Miyachi H, Fukuda M, Shinkai Y, Tachibana M</p>	<p>Year 2020</p> <p>Species Mouse</p>
<p>Scientific reports</p> <p><b>EpEX/EpCAM and Oct4 or Klf4 alone are sufficient to generate induced pluripotent stem cells through STAT3 and HIF2.</b></p> <p>"14579181 was used in western blot to establish that epithelial cell adhesion molecule and extracellular domain of EpCAM enhance the efficiency of OSKM reprogramming"</p> <p>Authors: Kuan II, Liang KH, Wang YP, Kuo TW, Meir YJ, Wu SC, Yang SC, Lu J, Wu HC</p>	<p>Year 2017</p> <p>Species Mouse</p>

Immunohistochemistry (18)

<p>Nephron</p> <p><b>Tissue Inhibitor of Metalloproteinases-2 Mediates Kidney Injury during Sepsis.</b></p> <p>"Published figure using CD326 (EpCAM) monoclonal antibody (Product # 14-5791-81) in Immunohistochemistry"</p> <p>Authors: Wen X, Zhang J, Wan X, Frank AA, Qu X, Kellum JA</p>	<p>Year 2021</p>
<p>Breast cancer research : BCR</p> <p><b>Cellular dormancy in minimal residual disease following targeted therapy.</b></p> <p>"14-5791-81 was used in Immunohistochemistry to identify residual tumour cell-specific features using transgenic mouse models."</p> <p>Authors: Ruth JR, Pant DK, Pan TC, Seidel HE, Baksh SC, Keister BA, Singh R, Sterner CJ, Bakewell SJ, Moody SE, Belka GK, Chodosh LA</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:100</p>

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