

**PE/Dazzle™ 594 anti-mouse CD326 (Ep-CAM)**

**Catalog # / Size:** 1191180 / 100 µg  
1191175 / 25 µg

**Clone:** G8.8

**Isotype:** Rat IgG2a, κ

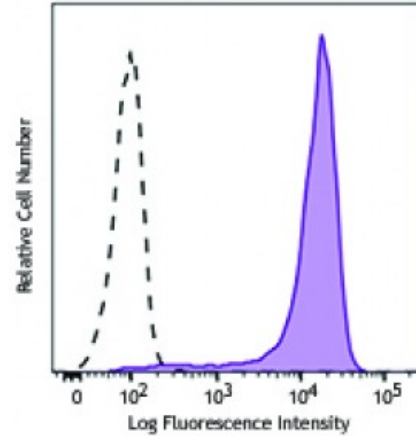
**Immunogen:** TE-71 thymic epithelial cell line

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2



TE-71 (mouse thymic epithelial stromal cell line) cells were stained with CD326 (clone G8.8) PE/Dazzle™ 594 (filled histogram) or rat IgG2a, κ PE/Dazzle™ 594 isotype control (open histogram).

**Applications:**

**Applications:** Flow Cytometry

**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 ≤0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

**Application Notes:** Additional reported applications for clone G8.8 (for the relevant formats) include: immunohistochemistry of frozen sections: acetone fixed<sup>1</sup>, with or without OCT embedding<sup>2,4</sup>.

- Application References:**
1. Farr A, *et al.* 1991. *J. Histochem. Cytochem.* 39:645. (FC, IHC)
  2. Dooley J, *et al.* 2005. *J. Immunol.* 175:4331. (FC, IHC)
  3. Hinterberger M, *et al.* 2010. *Nat. Immunol.* 11:512. (FC) [PubMed](#)
  4. Gracz AD, *et al.* 2010. *Am J. Physiol Gastrointest Liver Physiol.* 298:590. (IHC) [PubMed](#)
  5. Nudel I, *et al.* 2011. *J. Immunol.* 186:891. [PubMed](#)
  6. Morimoto H, *et al.* 2012. *Biol Reprod.* 86:148. [PubMed](#)
  7. Ishii K, *et al.* 2012. *Development.* 139:1734. [PubMed](#)
  8. Takehashi M, *et al.* 2012. *Biol Reprod.* 86:178. [PubMed](#)
  9. Murakami R, *et al.* 2013. *PLoS One.* 8:73270. [PubMed](#)
  10. Taguchi K, *et al.* 2014. *Mol Cell Biol.* 34:900. [PubMed](#)
  11. Hirokawa Y, *et al.* 2014. *Am J Physiol Gastrointest Liver Physiol.* 306:547. [PubMed](#)
  12. Ding X, *et al.* 2015. *Cancer Res.* 75:330. [PubMed](#)

**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.

- Antigen**  
**References:**
1. Borkowski TA, *et al.* 1996. *Eur. J. Immunol.* 26:110.
  2. Bergsagel PL, *et al.* 1992. *J. Immunol.* 148:590.