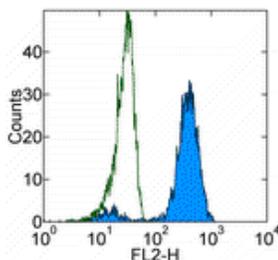


## Anti-Human CD325 (N-Cadherin) Purified

Catalog Number: 14-3259

Also Known As: neural cadherin

RUO: For Research Use Only



Staining of HeLa cells with 0.25  $\mu$ g of Mouse IgG1 K Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25  $\mu$ g of Anti-Human CD325 (N-Cadherin) Purified (filled histogram) followed by F(ab')<sub>2</sub> Anti-Mouse IgG PE (cat. 12-4012). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human CD325 (N-Cadherin) Purified

**REF** **Catalog Number:** 14-3259

**Clone:** 8C11

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



**Temperature Limitation:** Store at 2-8°C.



**Batch Code:** Refer to Vial



**Use By:** Refer to Vial

### Description

The 8C11 monoclonal antibody reacts with human CD325, also known as N-Cadherin. CD325 is a 130 kDa member of the Cadherin superfamily, and consists of five extracellular repeats, a transmembrane domain and a cytoplasmic domain. CD325 deficient mice die at day 10 of gestation and embryos display major heart defects and malformed neural tubes and somites. Consistent with this, CD325 has been implicated in several aspects of cardiac development including the precardiac mesoderm, establishment of left-right symmetry and cardiac looping morphogenesis. Furthermore, CD325 is normally involved in inducing cell cycle arrest and its expression is frequently dysregulated in cancer cells.

### Applications Reported

This 8C11 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB), and immunohistochemical staining.

### Applications Tested

This 8C11 antibody has been tested by flow cytometric analysis of HeLa cells. This can be used at less than or equal to 0.5  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) 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<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.

### References

Wahl JK 3rd, Kim YJ, Cullen JM, Johnson KR, Wheelock MJ. N-cadherin-catenin complexes form prior to cleavage of the proregion and transport to the plasma membrane. *J Biol Chem.* 2003 May 9;278(19):17269-76. Epub 2003 Feb 25. (8C11, WB, PubMed)

Puch S, Armeanu S, Kibler C, Johnson KR, Müller CA, Wheelock MJ, Klein G. N-cadherin is developmentally regulated and functionally involved in early hematopoietic cell differentiation. *J Cell Sci.* 2001 Apr;114(Pt 8):1567-77. (8C11, FC, PubMed)

### Related Products

12-4012 F(ab')<sub>2</sub> Anti-Mouse IgG PE (polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)

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