SONY

Product Data Sheet

Alexa Fluor® 488 anti-human CD325 (N-Cadherin)

Catalog # / Size: 2354045 / 25 tests
2354050 / 100 tests

Clone: 8C11

Isotype: Mouse IgG1, κ

Immunogen: Recombinant human N-cadherin extracellular domain

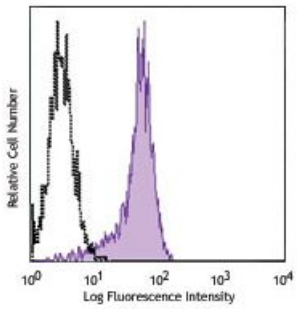
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: V S160

Concentration: Lot-specific



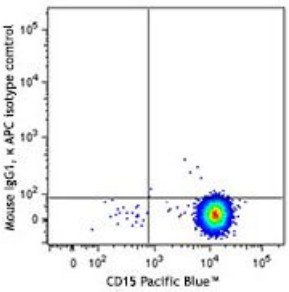
Human acute myeloid leukemia cell line (KG1a) was stained with CD325 (clone 8C11) Alexa Fluor® 488 (filled histogram) or mouse IgG1a, κAlexa Fluor® 488 (open histogram).

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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.



Application Notes: The mAb 8C11 recognizes the amino acids 92–593 of CD325, located between the extracellular cadherin structural domain (EC) 3 and 4. Additional reported applications (for the relevant formats) include: immunofluorescence[1,3,6], motility inhibition of N-cadherin-expressing cells2, and Western blot[2,4].

Application References:

1. Navarro P, et al. 1998. *J. Cell Biol.* 140:1475. (IF)
2. Kim JB. 2000. *J. Cell Biol.* 151:1193. (Block, WB)
3. Puch S, et al. 2001. *J. Cell. Sci.* 114:1567. (IF)
4. Wahl JK. 3rd, et al. 2003. *J. Biol. Chem.* 278:17269. (WB)
5. Wein F, et al. 2010. *Stem. Cell Res.* 4:129. (FC)
6. Jaggi M, et al. 2002. *Cell. Commun. Adhes.* 9:103. (IF)

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Description: CD325 (N-cadherin) is a 130 kD, single pass transmembrane protein. Its extracellular region consists of five EC domains and has one cytoplasmic domain. N-cadherin is involved in organogenesis and maintenance of organ architecture by contributing to the sorting of heterogeneous cell types and in the cell adhesion needed to form tissues. N-cadherin is expressed by stem cells, myeloblasts, endothelial cells, and fibroblasts, and also is expressed in neural and muscle tissues and some types of carcinoma cells. CD325 associates with the cytoskeleton trough catenin proteins.

Antigen References:

1. Colomiere M, *et al.* 2009. *Brit. J. Cancer* 100:134.
2. Yan W, *et al.* 2010. *J. Biol. Chem.* 285:14042.
3. Mosnier JF, *et al.* 2009. *Mod. Pathol.* 22:182.
4. Gao L, *et al.* 2010. *Stem Cells* 28:564.

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