

Product Data Sheet

PE/Cy7 anti-human CD209 (DC-SIGN)

Catalog # / Size: 2250565 / 25 tests
2250570 / 100 tests

Clone: 9E9A8

Isotype: Mouse IgG2a, κ

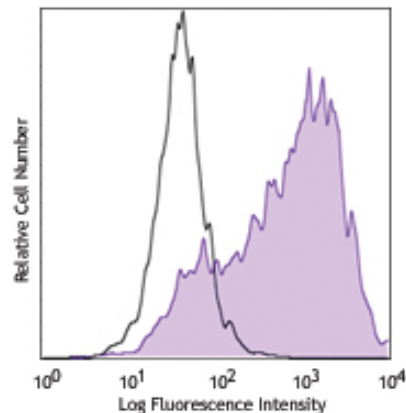
Immunogen: Extracellular domain of human DC-SIGN

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**



Human monocytes-derived dendritic cells were stained with CD209 (clone 9E9A8) PE/Cy7 (filled histogram) or mouse IgG2a PE/Cy7 isotype control (open histogram).

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Granelli-Piperno A, *et al.* 2005. *J Immunol.* 175:4265.

Description: CD209, known as Dendritic Cell-Specific Intercellular adhesion molecule 3 (ICAM-3)-Grabbing Nonintegrin (DC-SIGN), is a 44 kD type II transmembrane glycoprotein and a member of the C-type lectin family. CD209 is expressed on myeloid dendritic cells, placental macrophages, liver and placental endothelial cells. CD209 binds to ICAM-3 (CD50), ICAM-2 (CD102), and Butyrophilin (BTN2A1), and mediates dendritic cell migration and T cell proliferation. Importantly, CD209 is a receptor of HIV-1 and some other viruses (such as West Nile virus, hepatitis C virus, etc), and some bacteria or parasites. It plays a critical role in capturing and internalizing those pathogens. LSP1 (leukocyte-specific protein 1) interacts with the cytoplasmic domain of CD209 and mediates transport of HIV to the proteasome.

Antigen References: 1. Granelli-Piperno A, *et al.* 2005. *J Immunol.* 175:4265.

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