SONY

Product Data Sheet

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

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

Clone: 9E9A8

Isotype: Mouse IgG2a, κ

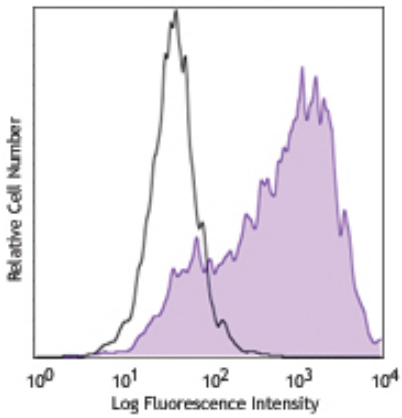
Immunogen: Extracellular domain of human DC-SIGN

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 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl 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 criti-cal 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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