

Brilliant Violet 421™ anti-human CD209 (DC-SIGN) Antibody

Catalog# / Size	330117 / 25 tests 330118 / 100 tests
Clone	9E9A8
Regulatory Status	RUO
Other Names	Dendritic Cell-Specific Intercellular adhesion molecule 3 (ICAM-3)-Grabbing Nonintegrin
Isotype	Mouse IgG2a, κ
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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Extracellular domain of human DC-SIGN
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>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 in 100 µl staining volume or 5 µl per 100 µl of whole blood.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemistry on frozen tissue sections ¹ and spatial biology (IBEX) ^{2,3} .
Application References	

(PubMed link indicates BioLegend citation)

1. Granelli-Piperno A, et al. 2005. *J Immunol.* 175:4265. (IHC-F)
2. Radtke AJ, et al. 2020. *Proc Natl Acad Sci USA.* 117:33455-33465. (SB) [PubMed](#)
3. Radtke AJ, et al. 2022. *Nat Protoc.* 17:378-401. (SB) [PubMed](#)

Product Citations

1. Lu Q, et al. 2021. *Immunity.* 54(6):1304-1319.e9. [PubMed](#)
2. Ronaghan NJ, et al. 2022. *PLoS One.* 17:e0276013. [PubMed](#)

RRID

AB_2734323 (BioLegend Cat. No. 330117)
AB_2734324 (BioLegend Cat. No. 330118)

Antigen Details

Distribution	Dendritic cells
Cell Type	Dendritic cells
Biology Area	Immunology, Innate Immunity
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Granelli-Piperno A, et al. 2005. <i>J Immunol.</i> 175:4265.
Gene ID	30835

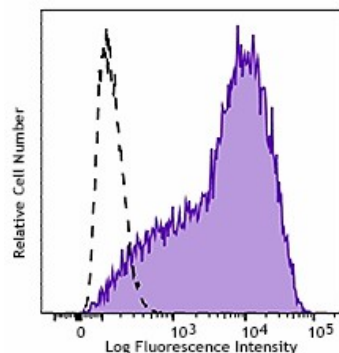
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD209 (DC-SIGN), FITC anti-human CD209 (DC-SIGN), PE anti-human CD209 (DC-SIGN), APC anti-human CD209 (DC-SIGN), PerCP/Cyanine5.5 anti-human CD209 (DC-SIGN), Alexa Fluor® 647 anti-human CD209 (DC-SIGN), PE/Cyanine7 anti-human CD209 (DC-SIGN), APC/Fire™ 750 anti-human CD209 (DC-SIGN), Brilliant Violet 421™ anti-human CD209 (DC-SIGN), TotalSeq™-A0597 anti-human CD209 (DC-SIGN), TotalSeq™-C0597 anti-human CD209 (DC-SIGN), TotalSeq™-B0597 anti-human CD209 (DC-SIGN), TotalSeq™-D0597 anti-human CD209 (DC-SIGN)

Product Data



Human monocytes-derived dendritic cells were stained with CD209 (DC-SIGN, clone 9E9A8) Brilliant Violet 421™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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