

## FITC anti-human CD209 (DC-SIGN) Antibody

<b>Catalog# / Size</b>	330103 / 25 tests 330104 / 100 tests
<b>Clone</b>	9E9A8
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Dendritic Cell-Specific Intercellular adhesion molecule 3 (ICAM-3)-Grabbing Nonintegrin
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Extracellular domain of human DC-SIGN
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemistry on frozen tissue sections <sup>1</sup> and spatial biology (IBEX) <sup>2,3</sup> .
<b>Additional Product Notes</b>	View more applications data for this product in our <a href="#">Scientific Poster Library</a> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Granelli-Piperno A, <i>et al.</i> 2005. <i>J Immunol.</i> 175:4265. <b>(IHC-F)</b></li> <li>2. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci USA.</i> 117:33455-33465. <b>(SB)</b> <a href="#">PubMed</a></li> <li>3. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. <b>(SB)</b> <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Zhang Z, Shively J 2013. <i>PLoS One.</i> 8:67649. <a href="#">PubMed</a></li> <li>2. Su R, <i>et al.</i> 2020. <i>Cancer Cell.</i> 38(1):79-96.e11. <a href="#">PubMed</a></li> <li>3. Carrion J, <i>et al.</i> 2012. <i>J Immunol.</i> 189:3178. <a href="#">PubMed</a></li> <li>4. Rodriguez-Pla A, <i>et al.</i> 2014. <i>J Immunol.</i> 192:5586. <a href="#">PubMed</a></li> </ol>

RRID AB\_1134057 (BioLegend Cat. No. 330103)  
AB\_1134048 (BioLegend Cat. No. 330104)

## Antigen Details

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

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

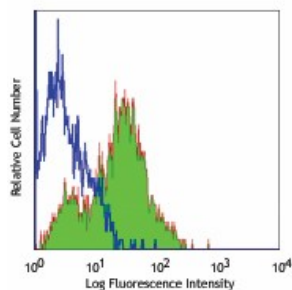
## Other Formats

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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

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Human monocytes-derived dendritic cells stained with 9E9A8 FITC

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