

TotalSeq™-A0597 anti-human CD209 (DC-SIGN) Antibody

Catalog# / Size	330119 / 10 µg
Clone	9E9A8
Regulatory Status	RUO
Other Names	Dendritic Cell-Specific Intercellular adhesion molecule 3 (ICAM-3)-Grabbing Nonintegrin
Isotype	Mouse IgG2a, κ
Barcode Sequence	TCACTGGACACTTAA
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 1 mM EDTA.
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-A oligomer under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-A antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemistry on frozen tissue sections ¹ and spatial biology (IBEX) ^{2,3} .
Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required.

Please contact [technical support](#) for more information, or visit biolegend.com/totalseq.

The barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and BAAA*A*A (capture sequence). B represents either C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

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. Hao Y, et al. 2021. *Cell*. 184:3573. [PubMed](#)

RRID

AB_2783206 (BioLegend Cat. No. 330119)

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

[TotalSeq™-A Antibodies and Cell Hashing with 10x Single Cell 3' Reagent Kit v3 3.1 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)

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