

## Datasheet: MCA2318F

<b>Description:</b>	MOUSE ANTI HUMAN CD209:FITC
<b>Specificity:</b>	CD209
<b>Other names:</b>	DC-SIGN
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MR-1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/5

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Immature myeloid monocyte-derived dendritic cells (MDDCs).		
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q9NNX6</a> <a href="#">Related reagents</a>		

**Entrez Gene:**

[30835](#) CD209 [Related reagents](#)

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<b>Synonyms</b>	CLEC4L
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<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the Mouse SP2/0-Ag14 myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Human CD209 antibody, clone MR-1</b> recognizes human DC-specific ICAM-3 grabbing nonintegrin (DC-SIGN), a ~45 kDa C-type lectin that binds ICAM-3 also known as CD209. CD209 is primarily expressed on a population of immature dendritic cells in peripheral tissues and on immature myeloid monocyte-derived DC's <i>in vitro</i>.</p> <p>CD209 is involved in dendritic cell (DC) migration and the initial interaction between DC's and naive T lymphocytes. CD209 also binds HIV-1 gp120 and plays a key role in the dissemination of HIV-1 by DC's.</p> <p>Mouse anti Human CD209 antibody, clone MR-1 is reported to partially block the functional activity of DC-SIGN (<a href="#">Melero et al.</a>).</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Relloso, M. <i>et al.</i> (2002) DC-SIGN (CD209) expression is IL-4 dependent and is negatively regulated by IFN, TGF-beta, and anti-inflammatory agents. <a href="#">J Immunol. 168 (6): 2634-43.</a></li><li>2. Melero, I. <i>et al.</i> (2002) An anti-ICAM-2 (CD102) monoclonal antibody induces immune-mediated regressions of transplanted ICAM-2-negative colon carcinomas. <a href="#">Cancer Res. 62 (11): 3167-74.</a></li><li>3. Domínguez-Soto, A. <i>et al.</i> (2011) Dendritic Cell-Specific ICAM-3-Grabbing Nonintegrin Expression on M2-Polarized and Tumor-Associated Macrophages Is Macrophage-CSF Dependent and Enhanced by Tumor-Derived IL-6 and IL-10. <a href="#">J Immunol. 186: 2192-200.</a></li><li>4. Chang, S.K. <i>et al.</i> (2008) B lymphocyte stimulator regulates adaptive immune responses by directly promoting dendritic cell maturation. <a href="#">J Immunol. 180: 7394-403.</a></li><li>5. Alvarez, C.P. <i>et al.</i> (2002) C-type lectins DC-SIGN and L-SIGN mediate cellular entry by Ebola virus in cis and in trans. <a href="#">J Virol. 76: 6841-4.</a></li><li>6. Zhang, S.S. <i>et al.</i> (2008) Plasminogen activator Pla of <i>Yersinia pestis</i> utilizes murine DEC-205 (CD205) as a receptor to promote dissemination <a href="#">J Biol Chem. 283: 31511-21.</a></li><li>7. Relloso, M. <i>et al.</i> (2002) Dendritic cell (DC)-specific intercellular adhesion molecule 3 (ICAM-3)-grabbing nonintegrin (DC-SIGN, CD209), a C-type surface lectin in human DCs, is a receptor for <i>Leishmania amastigotes</i>. <a href="#">J Biol Chem. 277:36766-9</a></li><li>8. Ciudad, M.T. <i>et al.</i> (2016) Analysis of the HLA-DR peptidome from human dendritic cells reveals high affinity repertoires and nonconventional pathways of peptide generation. <a href="#">J Leukoc Biol. Jun 30. pii: jlb.6HI0216-069R. [Epub ahead of print]</a></li><li>9. Chen, J.M. <i>et al.</i> (2017) Bovine Lactoferrin Inhibits Dengue Virus Infectivity by Interacting with Heparan Sulfate, Low-Density Lipoprotein Receptor, and DC-SIGN. <a href="#">Int J Mol Sci. 18 (9)Sep 12 [Epub ahead of print].</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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