

Datasheet: MCA2318F

Description:	MOUSE ANTI HUMAN CD209:FITC			
Specificity:	CD209			
Other names:	DC-SIGN			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	MR-1			
lsotype:	lgG1			
Quantity:	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 <u>www.bio-rad-antibodies.com/protocols</u> .				
	<u>rad-antibodies.com/pro</u>	Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	•			Neat - 1/5
	Where this product has	s not been te	sted for u	use in a particular tech	nnique this does not
	necessarily exclude its a guide only. It is recon system using appropria	nmended tha	t the use	er titrates the product f	ng dilutions are given as for use in their own
Target Species	Human				
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid				
Max Ex/Em	Fluorophore FITC	Excitation M 490	ax (nm)	Emission Max (nm) 525	
Preparation	Purified IgG prepared b supernatant	by affinity chr	omatogr	aphy on Protein A fror	m tissue culture
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin				
Approx. Protein Concentrations	IgG concentration 0.1 r	ng/ml			

External Database Links	UniProt: <u>Q9NNX6</u> <u>Related reagents</u> Entrez Gene: <u>30835</u> CD209 <u>Related reagents</u>
Synonyms	CLEC4L
RRID	AB_566634
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the Mouse SP2/0-Ag14 myeloma cell line.
Specificity	Mouse anti Human CD209 antibody, clone MR-1 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> . 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. Mouse anti Human CD209 antibody, clone MR-1 is reported to partially block the functional activity of DC-SIGN (Melero <i>et al.</i>).
Flow Cytometry	Use 10 μ I of the suggested working dilution to label 10 ⁶ cells in 100 μ I
References	 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. J Immunol. 168 (6): 2634-43. 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. Cancer Res. 62 (11): 3167-74. 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. J Virol. 76: 6841-4. 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 Leishmania amastigotes. J Biol Chem. 277:36766-9 Chang, S.K. <i>et al.</i> (2008) B lymphocyte stimulator regulates adaptive immune responses by directly promoting dendritic cell maturation. J Immunol.180: 7394-403. Zhang, S.S. <i>et al.</i> (2001) 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. J Immunol. 186: 2192-200. Ciudad, M.T. <i>et al.</i> (2017) Analysis of the HLA-DR peptidome from human dendritic cells reveals high affinity repertoires and nonconventional pathways of peptide generation.

	J Leukoc Biol. 101 (1): 15-27. 9. Chen, J.M. <i>et al.</i> (2017) Bovine Lactoferrin Inhibits Dengue Interacting with Heparan Sulfate, Low-Density Lipoprotein Rec Mol Sci. 18 (9): 1957. 10. Pham, H.L. <i>et al.</i> (2023) PDMS Micropatterns Coated with Regulatory Macrophage-like Phenotype. <u>Micromachines (Base</u> 11. Pham, H.L. <i>et al.</i> (2023) Human Regulatory Macrophages Using Arginylglycylaspartic Acid and Vitamin D3. <u>Biomedicines</u>	eptor, and DC-SIGN. <u>Int J</u> PDA and RGD Induce a el). 14 (3) :673. Derived from THP-1 Cells	
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.		
Guarantee	12 months from date of despatch		
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2318F 10041		
Regulatory	For research purposes only		

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M414482:221209'

Printed on 29 Aug 2024

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