Datasheet: MCA2318T BATCH NUMBER 169118

Description:MOUSE ANTI HUMAN CD209Specificity:CD209Other names:DC-SIGNFormat:PurifiedProduct Type:Monoclonal AntibodyClone:MR-1Isotype:IgG1Quantity:25 μg		
Other names:DC-SIGNFormat:PurifiedProduct Type:Monoclonal AntibodyClone:MR-1Isotype:IgG1	Description:	MOUSE ANTI HUMAN CD209
Format:PurifiedProduct Type:Monoclonal AntibodyClone:MR-1Isotype:IgG1	Specificity:	CD209
Product Type:Monoclonal AntibodyClone:MR-1Isotype:IgG1	Other names:	DC-SIGN
Clone: MR-1 Isotype: IgG1	Format:	Purified
Isotype: IgG1	Product Type:	Monoclonal Antibody
	Clone:	MR-1
Quantity: 25 µg	Isotype:	lgG1
	Quantity:	25 µg

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>.

		0010.			
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			1/50 - 1/100
	Immunohistology - Frozen			•	
	Immunohistology - Paraffin			•	
	ELISA				
	Immunoprecipitation				
	Western Blotting			•	
	Immunofluorescence	-			
	Where this product has n	ot been t	ested for	use in a particular tech	nnique this does not
	necessarily exclude its us	se in sucł	n procedu	ires. Suggested workin	dilutions are given as
	a guide only. It is recommended that the user titrates the product for use in their own				
	system using appropriate negative/positive controls.				
	system using appropriate	controis.			
Target Species	Human				
Product Form	Purified IgG - liquid				

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue cu supernatant	lture
Buffer Solution	Phosphate buffered saline	
Preservative	0.09% sodium azide (NaN ₃)	

Stabilisers

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Immature myeloid monocyte-derived dendritic cells (MDDCs).
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_1101360
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 (<u>Melero <i>et al.</i></u>).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in $100µl$
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. <u>J Immunol. 168 (6)</u>: <u>2634-43.</u> 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. <u>Cancer Res. 62</u> (<u>11)</u>: <u>3167-74.</u> 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. <u>J Virol. 76: 6841-4.</u> 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. <u>J Biol Chem. 277:36766-9</u> Chang, S.K. <i>et al.</i> (2008) B lymphocyte stimulator regulates adaptive immune responses by directly promoting dendritic cell maturation. <u>J Immunol.180: 7394-403.</u> Zhang, S.S. <i>et al.</i> (2008) Plasminogen activator Pla of Yersinia pestis utilizes murine

	DEC-205 (CD205) as a receptor to promote dissemination <u>J Biol Chem. 283: 31511-21.</u>				
	7. Domínguez-Soto, A. et al. (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. <u>J Immunol. 186: 2192-200.</u>				
	8. Ciudad, M.T. et al. (2017) Analysis of the HLA-DR peptidome from human dendritic				
	cells reveals high affinity repertoires and nonconventional pathways of peptide generation.				
	<u>J Leukoc Biol. 101 (1): 15-27.</u>				
	9. Chen, J.M. et al. (2017) Bovine Lactoferrin Inhibits Dengue Virus Infectivity by				
	Interacting with Heparan Sulfate, Low-Density Lipoprotein Receptor, and DC-SIGN. Int J				
	<u>Mol Sci. 18 (9): 1957.</u>				
	10. Pham, H.L. et al. (2023) PDMS Micropatterns Coated with PDA and RGD Induce a				
	Regulatory Macrophage-like Phenotype. <u>Micromachines (Basel). 14 (3) :673.</u>				
	11. Pham, H.L. et al. (2023) Human Regulatory Macrophages Derived from THP-1 Cells				
	Using Arginylglycylaspartic Acid and Vitamin D3. <u>Biomedicines. 11 (6): 1740.</u>				
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.				
	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.				
Guarantee	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.				
Guarantee	Avoid repeated freezing and thawing as this may denature the antibody. Storage in				
Guarantee Health And Safety	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.				
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. 12 months from date of despatch				
Health And Safety	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. 12 months from date of despatch Material Safety Datasheet documentation #10040 available at:				

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,		
	DyLight®650, DyLight®680, DyLight®800,		
	,,,,		
	FITC, HRP		
Goat Anti Mouse IgG (Fc) (STAR120)			
Goat Anti Mouse IgG (Fc) (STAR120) Goat Anti Mouse IgG (STAR77)	FITC, HRP		
c () ()	FITC, HRP FITC, HRP		
Goat Anti Mouse IgG (STAR77)	FITC, HRP FITC, HRP HRP		

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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	То
	Email: antibody_sales_us@	gbio-rad.com	Email: antibody_sales_uk@bio	o-rad.com	Email: antibody_sales_de@bio-ra	ad.comd a
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets						

'M414480:221209'

Printed on 29 Aug 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint