

## Datasheet: MCA2258EL

<b>Description:</b>	MOUSE ANTI HUMAN CD205:Low Endotoxin
<b>Specificity:</b>	CD205
<b>Other names:</b>	DEC205
<b>Format:</b>	Low Endotoxin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MG38
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.5 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 (1)	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Immunofluorescence	▪			

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.

**(1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	<0.01EU/ug
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	CR-Fn II fusion protein
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">O60449</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4065</a>    LY75    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CD205, CLEC13B
<b>RRID</b>	AB_1172088
<b>Fusion Partners</b>	Spleen cells from immunised DEC-205 knock-out mice were fused with cells of the SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human CD205 antibody, clone MG38</b> recognizes human CD205, a ~205 kDa cell surface glycoprotein that is also known as DEC205. CD205 is a multilectin receptor which in humans is predominantly expressed by dendritic cells.</p> <p>Mouse anti Human CD205 antibody, clone MG38 stains mature monocyte - derived dendritic cells and weakly stains some peripheral blood mononuclear cells. Clone MG38 also stains cortical epithelium in the thymus.</p> <p>Mouse anti Human CD205 antibody, clone MG38 is routinely tested in flow cytometry on the KM-H2 cell line.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>Histology Positive Control Tissue</b>	Human tonsil
<b>References</b>	<ol style="list-style-type: none"> <li>Guo, M. <i>et al.</i> (2000) A monoclonal antibody to the DEC-205 endocytosis receptor on human dendritic cells. <a href="#">Hum Immunol. 61 (8): 729-38.</a></li> <li>García-Nieto, S. <i>et al.</i> (2010) Laminin and fibronectin treatment leads to generation of dendritic cells with superior endocytic capacity. <a href="#">PLoS One. 5(4): e10123.</a></li> <li>Mikulak, J. <i>et al.</i> (2010) DC-specific ICAM-3-grabbing nonintegrin mediates internalization of HIV-1 into human podocytes. <a href="#">Am J Physiol Renal Physiol. 299: F664-73.</a></li> <li>Hatsukari, I. <i>et al.</i> (2007) DEC-205-mediated internalization of HIV-1 results in the</li> </ol>

establishment of silent infection in renal tubular cells. [J Am Soc Nephrol. 18: 780-7.](#)  
5. Ebner, S. *et al.* (2002) A novel role for IL-3: human monocytes cultured in the presence of IL-3 and IL-4 differentiate into dendritic cells that produce less IL-12 and shift Th cell responses toward a Th2 cytokine pattern. [J Immunol. 168 \(12\): 6199-207.](#)

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**Further Reading** 1. Kato, M. *et al.* (2006) Expression of human DEC-205 (CD205) multilectin receptor on leukocytes [Int Immunol 18: 857-69](#)

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**Storage** Store at -20°C only.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10162 available at: 10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),  
[DyLight®800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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