

## Datasheet: MCA2258A647

<b>Description:</b>	MOUSE ANTI HUMAN CD205:Alexa Fluor® 647
<b>Specificity:</b>	CD205
<b>Other names:</b>	DEC205
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MG38
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 TESTS/1ml

### 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)	▪			Neat

Where this product 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 product 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 conjugated to Alexa Fluor 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<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</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		

<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 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>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 suggested working dilution 10 <sup>6</sup> cells in 100ul
<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 establishment of silent infection in renal tubular cells. <a href="#">J Am Soc Nephrol. 18: 780-7.</a></li> <li>Ebner, S. <i>et al.</i> (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. <a href="#">J Immunol. 168 (12): 6199-207.</a></li> </ol>
<b>Further Reading</b>	1. Kato, M. <i>et al.</i> (2006) Expression of human DEC-205 (CD205) multilectin receptor on leukocytes <a href="#">Int Immunol 18: 857-69</a>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p>

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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 #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA691A647\)](#)

### Recommended Useful Reagents

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

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

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