

Datasheet: MCA2258

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|----------------------|------------------------|
| Description: | MOUSE ANTI HUMAN CD205 |
| Specificity: | CD205 |
| Other names: | DEC205 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | MG38 |
| Isotype: | IgG2b |
| Quantity: | 0.2 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.

| | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry (1) | ▪ | | | 1/25 - 1/50 |
| 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.

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

| | |
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| Preservative Stabilisers | 0.09% Sodium Azide 1% Bovine Serum Albumin |
| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | CR-Fn II fusion protein |
| External Database Links | <p>UniProt: O60449 Related reagents</p> <p>Entrez Gene: 4065 LY75 Related reagents</p> |
| Synonyms | CD205, CLEC13B |
| RRID | AB_324885 |
| Fusion Partners | Spleen cells from immunised DEC-205 knock-out mice were fused with cells of the SP2/0 myeloma cell line |
| Specificity | <p>Mouse anti Human CD205 antibody, clone MG38 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> |
| Flow Cytometry | Use 10ul of suggested working dilution 10^6 cells in 100ul. |
| Histology Positive Control Tissue | Human tonsil |
| References | <ol style="list-style-type: none"> Guo, M. <i>et al.</i> (2000) A monoclonal antibody to the DEC-205 endocytosis receptor on human dendritic cells. Hum Immunol. 61 (8): 729-38. García-Nieto, S. <i>et al.</i> (2010) Laminin and fibronectin treatment leads to generation of dendritic cells with superior endocytic capacity. PLoS One. 5(4): e10123. Mikulak, J. <i>et al.</i> (2010) DC-specific ICAM-3-grabbing nonintegrin mediates internalization of HIV-1 into human podocytes. Am J Physiol Renal Physiol. 299: F664-73. 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. J Am Soc Nephrol. 18: 780-7. 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. [J Immunol. 168 \(12\): 6199-207.](#)

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

Storage Store at +4°C or at -20°C if preferred.

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.

Guarantee 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

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 \(MCA691\)](#)

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