

Datasheet: MCA2258T

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

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

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_1101292
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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