

Datasheet: MCA2258F

Description:	MOUSE ANTI HUMAN CD205:FITC
Specificity:	CD205
Other names:	DEC205
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MG38
Isotype:	IgG2b
Quantity:	0.1 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry(1)	■			Neat - 1/5

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.

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

(1)Special conditions apply. - See [*].

Target Species	Human
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide
Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	CR-Fn II fusion protein
External Database Links	<p>UniProt: O60449 LY75_HUMAN Related reagents</p> <p>Entrez Gene: 4065 LY75 Related reagents</p>
Synonyms	CD205, CLEC13B

Fusion Partners	Spleen cells from immunised DEC-205 knock-out mice were fused with cells of the SP2/0 myeloma cell line.
Specificity	MCA2258F recognises human CD205, a 205kD cell surface glycoprotein that is also known as DEC-205. CD205 is a multilectin receptor which in humans is predominantly expressed by dendritic cells. 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.
Flow Cytometry	Use 10ul of suggested working dilution 10 ⁶ cells in 100ul. Method sheets are available on request
References	<ol style="list-style-type: none"> 1. Guo, M. <i>et al.</i> (2000) A Monoclonal Antibody to the DEC-205 Endocytosis Receptor on Human Dendritic Cells. Hum. Immunol. 61: 729 - 738 2. 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. 3. 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. 4. 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.
Further Reading	1. Kato, M. <i>et al.</i> (2006) Expression of human DEC-205 (CD205) multilectin receptor on leukocytes Int Immunol 18: 857-69
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10041 available at: http://www.abdserotec.com/uploads/MSDS/10041.pdf

Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:FITC \(MCA691F\)](#)

Other formats and applications

This reagent is also available in a [Azide Free](#), [Low Endotoxin](#), [Purified](#), [RPE](#) format and is useful for Immunohistology - Frozen, Immunoprecipitation

For research purposes only, unless otherwise specified in writing by AbD Serotec.

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