

Datasheet: MCA2520F

Description:	MOUSE ANTI HUMAN CD65s:FITC
Specificity:	CD65s
Other names:	CDw65
Format:	FITC
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody VIM-2
Product Type: Clone: Isotype:	Monoclonal Antibody VIM-2 IgM

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 <u>www.bio-</u>					
	rad-antibodies.com/pro	otocols.				
	Flow Outsmoother	Yes	Νο	Not Determined	Suggested Dilution	
	Flow Cytometry		4 		neat - 1/10	
	Where this product has not been tested for use in a particular technique t					
	a guide only. It is recon system using appropri	s use in such p mmended that ate negative/p	the use ositive c	es. Suggested work r titrates the produc ontrols.	t for use in their own	
Target Species	Human					
Product Form	Purified IgM conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Ma	ıx (nm)	Emission Max (nm)		
	FITC	490		525	_	
Preparation	Purified IgM prepared by ammonium sulphate precipitation.					
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% Sodium Azide (NaN ₃)					
Stabilisers	1% Bovine Serum Albumin					
Approx. Protein Concentrations	IgM concentration 0.1r	mg/ml				

Immunogen	THP1 (human acute monocytic leukaemia cells).
RRID	AB_1510101
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	Mouse anti Human CD65s antibody, clone VIM-2 selectively recognizes the sialylated form of human CD65, known as CD65s (VIM-2 antigen), a leucocyte carbohydrate antigen expressed by granulocytes, monocytes and leukaemic cells of myelomonocytic lineage.
	CD65s is aberrantly expressed on some acute myeloid leukaemias (AML) and clone VIM-2 has been reliably used as a marker for distinguishing between mature and undifferentiated AML. During normal myelopoiesis, expression of CD65s follows the disappearance of the progenitor antigen CD34.
	Cross-linking of the CD65s antigen using clone VIM-2, has been shown to induce phagocyte cytoplasmic calcium flux, oxidative burst and degranulation (<u>Lund-Johansen <i>et</i></u> <u><i>al.</i> 1992</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Gooi, H.C. <i>et al.</i> (1985) Differences in the fine specificities of monoclonal (Class A) antibodies to human myeloid cells. <u>Clin Exp Immunol. 60 (1): 151-8</u>. Lund-johansen, F. <i>et al.</i> (1992) Activation of human phagocytes through carbohydrate antigens (CD15, sialyl-CD15, CDw17, and CDw65). <u>J Immunol. 148 (10): 3221-9</u>. Knapp, W. <i>et al.</i> (1994) Flow cytometric analysis of cell-surface and intracellular antigens in leukemia diagnosis. <u>Cytometry. 18 (4): 187-98</u>. Lund-johansen, F. <i>et al.</i> (1990) Flow cytometric assay for the measurement of human bone marrow phenotype, function and cell cycle. <u>Cytometry. 11 (5): 610-6</u>. Bengtson, P. <i>et al.</i> (2002) Polymorphonuclear Leukocytes from Individuals Carrying the G329A Mutation in the α1,3-Fucosyltransferase VII Gene (FUT7) Roll on E- and P-Selectins <u>J Immunol. 169: 3940-6</u>. Buffone, A. <i>et al.</i> (2013) Silencing α1,3-fucosyltransferases in human leukocytes reveals a role for FUT9 during E-selectin mediated cell adhesion. <u>J Biol Chem. 288; 1620-33</u>. Nakayama, F. <i>et al.</i> (2001) CD15 expression in mature granulocytes is determined by alpha 1,3-fucosyltransferase IX, but in promyelocytes and monocytes by alpha 1,3-fucosyltransferase IX, but in promyelocytes and monocytes by alpha 1,3-fucosyltransferase IX, but in promyelocytes and monocytes by alpha 1,3-fucosyltransferase IX, but in promyelocytes and monocytes by alpha 1,3-fucosyltransferase IX, but in promyeloid cells under shear flow. <u>Eur J Immunol. 32</u>; <u>251-60</u>. Paietta, E. <i>et al.</i> (2003) Low expression of the myeloid differentiation antigen CD65s, a feature of poorly differentiated AML in older adults: study of 711 patients enrolled in ECOG trials. <u>Leukemia. 17: 1544-50</u>. Bengtson, P. <i>et al.</i> (2001) Identification of a missense mutation (G329A;Arg(110)> GLN) in the human FUT7 gene. J Biol Chem. 276: 31575-82. Oehler, L. <i>et al.</i> (1998) Neutrophil granulocyte-committed cells ca

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.			
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</u>			
Regulatory	For research purposes only			

Related Products

Recommended Negative Controls

MOUSE IgM NEGATIVE CONTROL:FITC (MCA692F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.	com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M385450:210513'

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