

## Datasheet: MCA2520F

<b>Description:</b>	MOUSE ANTI HUMAN CD65s:FITC
<b>Specificity:</b>	CD65s
<b>Other names:</b>	CDw65
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	VIM-2
<b>Isotype:</b>	IgM
<b>Quantity:</b>	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. 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	▪			neat - 1/10

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgM conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgM prepared by ammonium sulphate precipitation.		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgM concentration 0.1mg/ml		

<b>Immunogen</b>	THP1 (human acute monocytic leukaemia cells).
<b>RRID</b>	AB_1510101
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD65s antibody, clone VIM-2</b> 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.</p> <p>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.</p> <p>Cross-linking of the CD65s antigen using clone VIM-2, has been shown to induce phagocyte cytoplasmic calcium flux, oxidative burst and degranulation (<a href="#">Lund-Johansen et al. 1992</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Gooi, H.C. <i>et al.</i> (1985) Differences in the fine specificities of monoclonal (Class A) antibodies to human myeloid cells. <a href="#">Clin Exp Immunol. 60 (1): 151-8.</a></li> <li>Lund-johansen, F. <i>et al.</i> (1992) Activation of human phagocytes through carbohydrate antigens (CD15, sialyl-CD15, CDw17, and CDw65). <a href="#">J Immunol. 148 (10): 3221-9.</a></li> <li>Knapp, W. <i>et al.</i> (1994) Flow cytometric analysis of cell-surface and intracellular antigens in leukemia diagnosis. <a href="#">Cytometry. 18 (4): 187-98.</a></li> <li>Lund-johansen, F. <i>et al.</i> (1990) Flow cytometric assay for the measurement of human bone marrow phenotype, function and cell cycle. <a href="#">Cytometry. 11 (5): 610-6.</a></li> <li>Bengtson, P. <i>et al.</i> (2002) Polymorphonuclear Leukocytes from Individuals Carrying the G329A Mutation in the <math>\alpha</math>1,3-Fucosyltransferase VII Gene (FUT7) Roll on E- and P-Selectins <a href="#">J Immunol. 169: 3940-6.</a></li> <li>Buffone, A. <i>et al.</i> (2013) Silencing <math>\alpha</math>1,3-fucosyltransferases in human leukocytes reveals a role for FUT9 during E-selectin mediated cell adhesion. <a href="#">J Biol Chem. 288: 1620-33.</a></li> <li>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 IV. <a href="#">J Biol Chem. 276: 16100-6.</a></li> <li>Rao, R.M. <i>et al.</i> (2001) The S128R polymorphism of E-selectin mediates neuraminidase-resistant tethering of myeloid cells under shear flow. <a href="#">Eur J Immunol. 32: 251-60.</a></li> <li>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. <a href="#">Leukemia. 17: 1544-50.</a></li> <li>Bengtson, P. <i>et al.</i> (2001) Identification of a missense mutation (G329A;Arg(110)--&gt;GLN) in the human FUT7 gene. <a href="#">J Biol Chem. 276: 31575-82.</a></li> <li>Oehler, L. <i>et al.</i> (1998) Neutrophil granulocyte-committed cells can be driven to</li> </ol>

acquire dendritic cell characteristics. [J Exp Med. 187: 1019-28.](#)

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**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.

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**Guarantee** 12 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 IgM NEGATIVE CONTROL:FITC \(MCA692F\)](#)

### Recommended Useful Reagents

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

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

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

**Printed on 20 Sep 2021**

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