

# Datasheet: MCA2045F

Description:	MOUSE ANTI HUMAN CD177:FITC
Specificity:	CD177
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MEM-166
lsotype:	lgG1
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. For general protocol recommendations, please visit <u>www.bio-</u> rad-antibodies.com/protocols.					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat - 1/10	
	Where this product has	s not been tes	sted for us	se in a particular techr	nique this does not	
	necessarily exclude its use in such procedures. Suggested working dilutions are given as					
	a guide only. It is recor	mmended that	t the user	titrates the product fo	r use in their own	
	system using appropriate negative/positive controls.					
Target Species	Human					
Species Cross	Reacts with: Rhesus Monkey					
Reactivity	.eactivity N.B. Antibody reactivity and working conditions may vary between species. Cros			species. Cross		
	reactivity is derived fro	m testing with	in our lab	ooratories, peer-review	ed publications or	
	personal communication	ons from the c	originators	s. Please refer to refer	ences indicated for	
	further information.					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid.					
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)		
	FITC	490		525		
Preparation Purified IgG prepared by affinity chromatography on Protein A from			tissue culture			
	supernatant					
Buffer Solution	Phosphate buffered saline					

Preservative	0.09% sodium azide (NaN <sub>3</sub> )	
Stabilisers	1% bovine serum albumin	
Approx. Protein Concentrations	IgG concentration 0.1mg/ml	
Immunogen	Human granulocytes.	
External Database Links	UniProt: <u>Q8N6Q3</u> <u>Related reagents</u>	
	Entrez Gene: <u>57126</u> CD177 <u>Related reagents</u>	
Synonyms	NB1, PRV1	
RRID	AB_323349	
Specificity	<b>Mouse anti Human CD177 antibody, clone MEM-166</b> recogr (neutrophil glycoprotein NB1). The neutrophil NB1 antigen is e caucasian population. Antibodies against NB1 have been impli neonatal alloimmune neutropenia ( <u>Lalezari <i>et al.</i> 1971</u> ).	izes human CD177 xpressed by 97% of the cated in the pathology of
Flow Cytometry	Use 10 $\mu$ I of the suggested working dilution to label 10 <sup>6</sup> cells in	100µl
References	<ol> <li>Kissel, K. <i>et al.</i> (2002) Molecular basis of NB1 (HNA-2a, CD (11): 4231-3.</li> <li>Caruccio, L. <i>et al.</i> (2003) Expression of human neutrophil ar in pregnancy. <u>Transfusion. 43 (3): 357-63.</u></li> <li>Nishimura, M. <i>et al.</i> (2007) Detection of anti-CD32 alloantibo implicated in development of transfusion-related acute lung inju- (2): 179-83.</li> <li>Sachs, U.J. <i>et al.</i> (2007) The neutrophil-specific antigen CD for platelet endothelial cell adhesion molecule-1 (CD31). J Biol 5. Drewniak, A. <i>et al.</i> (2008) Granulocyte concentrates: prolong during storage in the presence of phenotypic changes. <u>Haema</u> 6. Dillon, M. <i>et al.</i> (2008) Expression of the GPI-anchored rece thrombopoietin and IL-3-induced proliferation in hematopoietic <u>811-9.</u></li> <li>Drewniak, A. <i>et al.</i> (2009) Changes in gene expression of gr granulocyte colony-stimulating factor/dexamethasone mobilizat purposes. <u>Blood. 113: 5979-98.</u></li> <li>Jerke, U. <i>et al.</i> (2011) Complement receptor Mac-1 is an addi mediated PR3-ANCA neutrophil activation. J Biol Chem. 286 (9 9. Pliyev, B.K. &amp; Menshikov, M. (2012) Comparative evaluation molecule CD177 in neutrophil interactions with platelets and er <u>89 (3): 236-44.</u></li> </ol>	177) deficiency. <u>Blood. 99</u> htigen-2a (NB1) is increased ody in donor plasma ury. <u>Cell Biochem Funct. 25</u> 177 is a counter-receptor <u>Chem. 282: 23603-12.</u> ged functional capacity tologica. 93:1058-67. optor Prv-1 enhances cell lines. <u>Leuk Res. 32:</u> ranulocytes during in vivo tion for transfusion aptor for NB1 (CD177)- <u>9): 7070-81.</u> of the role of the adhesion hdothelium. <u>Eur J Haematol.</u>

	10. Gabillet, J. <i>et al.</i> (2012) Proteinase 3, the autoantigen in granulomatosis with
	polyangiitis, associates with calreticulin on apoptotic neutrophils, impairs macrophage
	phagocytosis, and promotes inflammation. <u>J Immunol. 189: 2574-83.</u>
	11. Johansson, Å.C. et al. (2016) Impaired phagocytosis and reactive oxygen species
	production in phagocytes is associated with systemic vasculitis. <u>Arthritis Res Ther. 18 (1):</u> 92.
	12. Onodera, R. et al. (2017) Anti-human neutrophil antigen-1a, -1b, and -2 antibodies in
	neonates and children with immune neutropenias analyzed by extracted granulocyte
	antigen immunofluorescence assay. <u>Transfusion. 57 (11): 2586-94.</u>
	13. Bayat, B. et al. (2021) Transfusion of Target Antigens to Pre-Immunized Recipients: A
	New Mechanism in Transfusion-Related Acute Lung Injury. <u>Blood Adv.</u>
	bloodadvances.2020003843.
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
	nost-nee neezers is not recommended. This product is photosensitive and should be
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #100/1 available at
Information	https://www.bio.rad-antibodies.com/SDS/MCA2015E
	10041

### Related Products

### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

#### **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@t	bio-rad.com	Email: antibody_sales_uk@bio	-rad.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 'M412589:221114'

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