

Datasheet: MCA1725F

Description:	MOUSE ANTI HUMAN CD16b:FITC
Specificity:	CD16b
Other names:	FcR3 B
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	1D3
Isotype:	IgM
Quantity:	100 TESTS/2ml

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	■			Neat
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	

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.

Target Species	Human		
Product Form	Purified IgM conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Buffer Solution	Phosphate buffered saline		
Preservative	0.1% Sodium Azide		
Stabilisers	0.2% Bovine Serum Albumin		
Immunogen	Human granulocytes.		
External Database Links	UniProt: O75015 Related reagents		
	Entrez Gene: 2215 FCGR3B Related reagents		

Synonyms	CD16B, FCG3, FCGR3, IGFR3
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti human CD16b antibody, clone 1D3 , recognizes the human low-affinity IgG Fc region receptor III-B. CD16b is expressed only by neutrophils, whilst CD16a is expressed by neutrophils and natural killer cells.
Flow Cytometry	Use 20ul of the suggested working dilution to label 5×10^5 cells in 100ul.
References	<ol style="list-style-type: none"> 1. Morris, D.L. <i>et al.</i> (2010) Evidence for both copy number and allelic (NA1/NA2) risk at the FCGR3B locus in systemic lupus erythematosus. Eur J Hum Genet. 18 (9): 1027-31. 2. Bagaitkar, J. <i>et al.</i> (2010) Tobacco upregulates <i>P. gingivalis</i> fimbrial proteins which induce TLR2 hyposensitivity. PLoS One. 5(5):e9323. 3. Hill J & Samuel JE (2011) <i>Coxiella burnetii</i> acid phosphatase inhibits the release of reactive oxygen intermediates in polymorphonuclear leukocytes. Infect Immun. 79 (1): 414-20. 4. Larsson, N. <i>et al.</i> (2015) Identification of vitamin C transporters in the human airways: a cross-sectional <i>in vivo</i> study. BMJ Open. 5 (4): e006979.
Further Reading	1. Ravetch, J.V. & Kinet, J.P. (1991) Fc receptors. Annu Rev Immunol. 9: 457-92.
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	Please see label for expiry date.
Health And Safety Information	<p>Material Safety Datasheet documentation available at:</p> <p>Material Safety Datasheet Documentation #10304 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10304.pdf</p>
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL:FITC \(MCA692F\)](#)

Recommended Useful Reagents

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

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

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