

Datasheet: MCA1725F

Description:	MOUSE ANTI HUMAN CD16b:FITC
Specificity:	CD16b
Other names:	FcR111 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

RRID

AB_2104031

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

1. Morris, D.L. *et al.* (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. Bagaikar, J. *et al.* (2010) Tobacco upregulates *P. gingivalis* fimbrial proteins which induce TLR2 hyposensitivity. [PLoS One. 5\(5\):e9323.](#)
3. Hill J & Samuel JE (2011) *Coxiella burnetii* acid phosphatase inhibits the release of reactive oxygen intermediates in polymorphonuclear leukocytes. [Infect Immun. 79 \(1\): 414-20.](#)
4. Larsson, N. *et al.* (2015) Identification of vitamin C transporters in the human airways: a cross-sectional *in vivo* 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

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

Guaranteed until date of expiry. Please see product label.

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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