

Datasheet: MCA617F

BATCH NUMBER 165415

Description:	RAT ANTI HUMAN CD16:FITC
Specificity:	CD16
Other names:	FcRIII
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	YFC120.5
Isotype:	IgG2b
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/100

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.

Target Species

Human

Species Cross Reactivity

Reacts with: Cat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Human neutrophils.
External Database Links	<p>UniProt:</p> <p>O75015 Related reagents</p> <p>P08637 Related reagents</p> <p>Entrez Gene:</p> <p>2215 FCGR3B Related reagents</p> <p>2214 FCGR3A Related reagents</p>
Synonyms	CD16A, CD16B, FCG3, FCGR3, IGFR3
Fusion Partners	Spleen cells from Lou rat fused with the rat myeloma cell line. Y3/Ag.1.2.3.
Specificity	Rat anti Human CD16 antibody, clone YFC120.5 binds to the leucocyte low affinity Fc receptor (Fc RIII), also known as CD16. The antigen is expressed by neutrophils, NK cells, K cells and a subpopulation of macrophages. It recognizes a ~50-70 kDa leukocyte surface antigen.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> Huizinga, T.W. <i>et al.</i> (1990) Maternal genomic neutrophil FcRIII deficiency leading to neonatal isoimmune neutropenia. Blood. 76: 1927-32. Drescher, B. <i>et al.</i> (2003) Glycosylation of FcγRIII in N163 as mechanism of regulating receptor affinity. Immunology. 110: 335-40. Orr, C.F. <i>et al.</i> (2005) A possible role for humoral immunity in the pathogenesis of Parkinson's disease. Brain. 128 (Pt 11): 2665-74. Vermeulen, B.L. <i>et al.</i> (2012) Natural killer cells: frequency, phenotype and function in healthy cats. Vet Immunol Immunopathol. 150: 69-78. Vermeulen, B.L. <i>et al.</i> (2013) Suppression of NK cells and regulatory T lymphocytes in cats naturally infected with feline infectious peritonitis virus. Vet Microbiol. 164: 46-59.
Storage	<p>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.</p> <p>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.</p>

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA617F
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL:FITC \(MCA6006F\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M426206:231201'

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