

# Datasheet: MCA617G

### **BATCH NUMBER 1806**

Description:	RAT ANTI HUMAN CD16
Specificity:	CD16
Other names:	FcRIII
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	YFC120.5
Isotype:	lgG2b
Quantity:	0.2 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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			
Immunohistology - Frozen	•			
Immunohistology - Paraffin				
ELISA				
Immunoprecipitation			•	
Western Blotting			•	

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			
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 - liquid			
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
Carrier Free	Yes
Approx. Protein Concentrations	lgG concentration 1.0mg/ml
Immunogen	Human neutrophils.
External Database Links	UniProt:  O75015 Related reagents  P08637 Related reagents  Entrez Gene:  2215 FCGR3B Related reagents  2214 FCGR3A Related reagents
Synonyms	CD16A, CD16B, FCG3, FCGR3, IGFR3
RRID	AB_2104004
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 specifically 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 10 <sup>6</sup> cells in 100ul.
References	<ol> <li>Huizinga, T.W. et al. (1990) Maternal genomic neutrophil FcRIII deficiency leading to neonatal isoimmune neutropenia. Blood. 76: 1927-32.</li> <li>Vermeulen, B.L. et al. (2012) Natural killer cells: frequency, phenotype and function in healthy cats. Vet Immunol Immunopathol. 150: 69-78.</li> <li>Drescher, B. et al. (2003) Glycosylation of FcgammaRIII in N163 as mechanism of regulating receptor affinity. Immunology. 110: 335-40.</li> <li>Vermeulen, B.L. et al. (2013) Suppression of NK cells and regulatory T lymphocytes in cats naturally infected with feline infectious peritonitis virus. Vet Microbiol. 164: 46-59.</li> <li>Orr, C.F. et al. (2005) A possible role for humoral immunity in the pathogenesis of Parkinson's disease. Brain. 128 (Pt 11): 2665-74.</li> <li>Vermeulen, B.L. et al. (2013) Suppression of NK cells and regulatory T lymphocytes in cats naturally infected with feline infectious peritonitis virus. Vet Microbiol. 164 (1-2): 46-59.</li> </ol>

Storage	Store at +4°C for one month or at -20°C for longer.			
	This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.			
Guarantee	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA617G">https://www.bio-rad-antibodies.com/SDS/MCA617G</a>			
Regulatory	For research purposes only			

### **Related Products**

# **Recommended Secondary Antibodies**

Rabbit Anti Rat IgG (STAR16...) <u>DyLight®800</u>

Rabbit Anti Rat IgG (STAR17...) FITC

Rabbit Anti Rat IgG (STAR21...) HRP

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) <u>DyLight®550</u>, <u>DyLight®650</u>, <u>DyLight®800</u>

Goat Anti Rat IgG (STAR131...) Alk. Phos., Biotin

Goat Anti Rat IgG (STAR72...)

Goat Anti Rat IgG (STAR69...)

Goat Anti Rat IgG (STAR73...)

RPE

### **Recommended Negative Controls**

RAT IgG2b NEGATIVE CONTROL (MCA6006GA)

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 'M368719:200529'

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