

Datasheet: MCA503PET

Description:	RAT ANTI HUMAN CD18:RPE
Specificity:	CD18
Other names:	INTEGRIN BETA 2 CHAIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	YFC118.3
Isotype:	lgG2b
Quantity:	

# **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="https://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat

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: Dog, Guinea Pig <b>N.B.</b> Antibody reactivity and working conditions may vary between species				
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized				
Reconstitution	Reconstitute in 0.25 ml disilled water				
Max Ex/Em	Fluorophore	Emission Max (nm)			
	RPE 488nm laser	496	578		
Preparation	Purified IgG prepared by affinity chromatography on Protein G				
Buffer Solution	Phosphate buffered saline				
Preservative	0.09% Sodium Azide				
Stabilisers	1% Bovine Serum Albumin				
	5% Sucrose				
Immunogen	Human neutrophils.				

# External Database Links

**UniProt:** 

P05107 Related reagents

**Entrez Gene:** 

3689 ITGB2 Related reagents

## **Synonyms**

CD18, MFI7

#### **Fusion Partners**

Spleen cells from immunised LOU rats were fused with cells of the rat Y3/Ag.1.2.3 myeloma cell line.

### Specificity

Rat anti Human CD18 antibody, clone YFC118.3 was clustered at the Fourth International Workshop on Leucocyte Differentiation Antigen (code number N221) as recognising the CD18 antigen.

The CD18 antigen is an integral membrane glycoprotein of ~95 kDa, known as the beta chain, of the LFA-1 complex. The CD18 antigen is non-covalently linked to CD11a, b, c molecules.

The main cellular reactivity of Rat anti Human CD18 antibody, clone YFC118.3 is a strong reactivity with Leucocytes (platelets negative).

The CD18 molecule is the receptor for ICAM-1 and is thus important for cell adhesion.

#### Flow Cytometry

Use 10ul of the suggested working dilution to label 100ul whole blood or 10<sup>6</sup> cells in 100ul.

#### References

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- 4. Canalli, A.A. *et al.* (2011) Participation of Mac-1, LFA-1 and VLA-4 integrins in the in vitro adhesion of sickle cell disease neutrophils to endothelial layers, and reversal of adhesion by simvastatin. <u>Haematologica</u>. 96: 526-33.
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induced endothelial activation in isolated hearts. Circ Res. 84: 392-400.

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- 15. Mizuno, T. et al. (1997) cDNA cloning and chromosomal localization of the human telencephalin and its distinctive interaction with lymphocyte function-associated antigen-1. J Biol Chem. 272: 1156-63.
- 16. Lana, S. et al. (2006) Diagnosis of mediastinal masses in dogs by flow cytometry. J Vet Intern Med. 20: 1161-5.
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- 18. Crosby, H.A. et al. (2009) Adhesion of human haematopoietic (CD34+) stem cells to human liver compartments is integrin and CD44 dependent and modulated by CXCR3 and CXCR4. J Hepatol. 51: 734-49.
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#### Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	18 months from date of reconstitution.	
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Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>	
Regulatory	For research purposes only	

# Related Products

# **Recommended Negative Controls**

RAT IgG2b NEGATIVE CONTROL:RPE (MCA6006PE)

### Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) **HUMAN SEROBLOCK (BUF070B)**  North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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