

Datasheet: MCA503A647

#### **BATCH NUMBER 1607**

Description:	RAT ANTI HUMAN CD18:Alexa Fluor® 647		
Specificity:	CD18		
Other names:	INTEGRIN BETA 2 CHAIN		
Format:	ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	YFC118.3		
Isotype:	lgG2b		
Quantity:	100 TESTS/1ml		

## **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	•			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	Reacts with: Dog, Guinea Pig

# Species Cros

**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 Alexa Fluor® 647 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®647	650	665		
Preparation	Purified IgG prepared by affinity chromatography on Protein G				
Buffer Solution	Phosphate buffered	d saline			

Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml	
Immunogen	Human neutrophils	
External Database		
Links	UniProt:	
	P05107 Related reagents	
	Entrez Gene:	
	3689 ITGB2 Related reagents	
Synonyms	CD18, MFI7	
RRID	AB_324799	
Fusion Partners	Spleen cells from immunized LOU rats were fused with cells of myeloma cell line	f the rat Y3/Ag.1.2.3
Specificity	Rat anti Human CD18 antibody, clone YFC118.3 was clusted International Workshop on Leucocyte Differentiation Antigens recognizing the CD18 antigen.	
	CD18 is an integral membrane glycoprotein of ~95 kDa, also k of the LFA-1 complex. CD18 links non-covalently to either CD2 forming the heteromeric LFA-1 complex. CD18 acts as the rec important for cell adhesion and cell-cell interactions (Reina &E	11a, b or c molecules eptor for ICAM-1 and is
	Rat anti Human CD18 antibody, clone YFC118.3 demonstrates leucocytes and is not reactive with platelets.	s strong reactivity with
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in	100ul.
References	1. Bindon, C.I. <i>et al.</i> (1988) Importance of antigen specificity for lysis by monoclonal antibodies. Eur J Immunol. 18 (10): 1507-2. Chabanne, L. <i>et al.</i> (1994) Screening of 78 monoclonal antil human leukocyte antigens for cross-reactivity with surface mar lymphocytes. Tissue Antigens. 43 (3): 202-5.  3. Sampaio, W.M. <i>et al.</i> (2007) <i>In vitro</i> binding and survival assignaristies to peripherical blood monocytes and monocyte-derive from dogs naturally and experimentally infected with <i>Leishman</i> 3:11.  4. Canalli, A.A. <i>et al.</i> (2011) Participation of Mac-1, LFA-1 and vitro adhesion of sickle cell disease neutrophils to endothelial ladhesion by simvastatin. Haematologica. 96: 526-33.	bodies directed against rkers on canine says of Leishmania red macrophages isolated nia chagasi. BMC Vet Res.  VLA-4 integrins in the in

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**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

12 months from date of despatch

#### **Acknowledgements**

The isolation and characterisation of this cell line was carried out with help of funds supplied by the Medical Research Council, UK.

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# Health And Safety Information

Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA503A647">https://www.bio-rad-antibodies.com/SDS/MCA503A647</a> 10041

Regulatory

For research purposes only

### Related Products

#### **Recommended Negative Controls**

RAT IgG2b NEGATIVE CONTROL:Alexa Fluor® 647 (MCA6006A647)

#### **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

America

Tel: +1 800 265 7376 Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700

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51

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

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