

# Datasheet: MCA1853F BATCH NUMBER 0812

Description:	MOUSE ANTI HUMAN CD163:FITC
Specificity:	CD163
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	EDHu-1
Isotype:	lgG1
Quantity:	0.1 mg

## **Product Details**

Applications This product has been reported to work in the following applications. This inform					tions. This information is	
	derived from testing wi	thin our labo	ratories, p	eer-reviewed pub	lications or personal	
	communications from t	the originator	s. Please	refer to reference	s indicated for further	
	information. For general protocol recommendations, please visit <u>www.bio-</u>					
	rad-antibodies.com/pro	otocols.				
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•			Neat - 1/10	
	Where this antibody ha	as not been t	ested for u	ise 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 recor	mmended that	at the user	titrates the antibo	ody for use in their own	
	system using appropria	ate negative/	positive co	ntrols.		
Target Species	Human					
Species Cross Reactivity	Reacts with: Rhesus Monkey, Sheep, Pig, Guinea Pig, Bovine, Cynomolgus monkey <b>N.B.</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 M	ax (nm) E	Emission Max (nm	ı)	
	FITC	490		525		
Preparation	Purified IgG prepared supernatant	by affinity chr	romatogra	phy on Protein A	from tissue culture	
Buffer Solution	Phosphate buffered sa	lline				

Preservative	0.09% Sodium Azide (NaN <sub>3</sub> )		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
Immunogen	Leucocytes harvested from the pleural cavity of patients with idiopathic spontaneous pneumothorax		
External Database Links	UniProt:         Q86VB7       Related reagents         Entrez Gene:         9332       CD163       Related reagents		
Synonyms	M130		
RRID	AB_2260020		
Specificity	<ul> <li>Mouse anti Human CD163 antibody, clone EDHu-1 recognizes the human CD163 cell surface antigen, a 130-140 kDa glycoprotein expressed by tissue macrophages. CD163 expression may be induced on monocytes by culture in dexamethasone.</li> <li>Clone EDHu-1 is reported to inhibit the binding of haptoglobin/hemoglobin to CD163 (Madsen <i>et al.</i> 2004). Truncation mutation analysis demonstrates binding of EDHu-1 occurs via the N-terminal region of CD163 containing the first three scavenger receptor, Cysteine-rich, <u>SRCR domains</u> the third domain being critical as, cleavage of this domain at the major cleavage site <u>ASP-265</u> abrogates binding to the N-terminal fragment.</li> </ul>		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.		
References	<ol> <li>Kristiansen, M. <i>et al.</i> (2001) Identification of the haemoglobin scavenger receptor. Nature. 409 (6817): 198-201.</li> <li>Madsen, M. <i>et al.</i> (2004) Molecular characterization of the haptoglobin.hemoglobin receptor CD163. Ligand binding properties of the scavenger receptor cysteine-rich domain region. J Biol Chem. 279 (49): 51561-7.</li> <li>Kim, W.K. <i>et al.</i> (2006) CD163 identifies perivascular macrophages in normal and viral encephalitic brains and potential precursors to perivascular macrophages in blood. Am J Pathol. 168 (3): 822-34.</li> <li>Moreno JA <i>et al.</i> (2010) Peripheral artery disease is associated with a high CD163/TWEAK plasma ratio. Arterioscler Thromb Vasc Biol. 30 (6): 1253-62.</li> <li>Herrmann-Hoesing, L.M. (2010) Ovine progressive pneumonia virus capsid antigen as found in CD163- and CD172a-positive alveolar macrophages of persistently infected sheep. Vet Pathol. 47: 518-28.</li> <li>Asleh, R. <i>et al.</i> (2003) Genetically determined heterogeneity in hemoglobin scavenging and susceptibility to diabetic cardiovascular disease. <u>Circ Res. 92: 1193-200.</u></li> <li>Fabriek, B.O. <i>et al.</i> (2007) The macrophage CD163 surface glycoprotein is an</li> </ol>		

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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		
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1853F 10041		
Regulatory	For research purposes only		

### **Related Products**

### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

#### **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376 Worldwide	Tel: +44 (0)1865 852 700 Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751	Fax: +44 (0)1865 852 739	Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com	Email: antibody_sales_uk@bio-rad.com	Email: antibody_sales_de@bio-rad.com

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