

# Datasheet: MCA1853F

**BATCH NUMBER 162404**

<b>Description:</b>	MOUSE ANTI HUMAN CD163:FITC
<b>Specificity:</b>	CD163
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	EDHu-1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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: Rhesus Monkey, Sheep, Pig, Guinea Pig, Bovine, Cynomolgus monkey  
**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 A from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml
<b>Immunogen</b>	Leucocytes harvested from the pleural cavity of patients with idiopathic spontaneous pneumothorax
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q86VB7</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">9332</a>    CD163    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	M130
<b>RRID</b>	AB_2260020
<b>Specificity</b>	<p><b>Mouse anti Human CD163 antibody, clone EDHu-1</b> 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.</p> <p>Clone EDHu-1 is reported to inhibit the binding of haptoglobin/hemoglobin to CD163 (<a href="#">Madsen <i>et al.</i> 2004</a>). Truncation mutation analysis demonstrates binding of EDHu-1 occurs via the N-terminal region of CD163 containing the first three scavenger receptor, Cysteine-rich, <a href="#">SRCR domains</a> the third domain being critical as, cleavage of this domain at the major cleavage site <a href="#">ASP-265</a> abrogates binding to the N-terminal fragment.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Kristiansen, M. <i>et al.</i> (2001) Identification of the haemoglobin scavenger receptor. <a href="#">Nature. 409 (6817): 198-201.</a></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. <a href="#">J Biol Chem. 279 (49): 51561-7.</a></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. <a href="#">Am J Pathol. 168 (3): 822-34.</a></li> <li>Moreno JA <i>et al.</i> (2010) Peripheral artery disease is associated with a high CD163/TWEAK plasma ratio. <a href="#">Arterioscler Thromb Vasc Biol. 30 (6): 1253-62.</a></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. <a href="#">Vet Pathol. 47: 518-28.</a></li> <li>Asleh, R. <i>et al.</i> (2003) Genetically determined heterogeneity in hemoglobin scavenging and susceptibility to diabetic cardiovascular disease. <a href="#">Circ Res. 92: 1193-200.</a></li> <li>Fabriek, B.O. <i>et al.</i> (2007) The macrophage CD163 surface glycoprotein is an</li> </ol>

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#### Storage

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.

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.

#### 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 \(BUF070B\)](#)

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