

## Datasheet: MCA342PE

<b>Description:</b>	MOUSE ANTI RAT CD163:RPE
<b>Specificity:</b>	CD163
<b>Other names:</b>	ED2
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ED2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

### 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.

<b>Target Species</b>	Rat		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1%	Bovine Serum Albumin	
	5%	Sucrose	

<b>Immunogen</b>	Rat Spleen cell homogenate.
<b>RRID</b>	AB_321968
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Rat CD163, clone ED2</b> recognizes the rat ED2 cell surface glycoprotein (<a href="#">Dijkstra et al. 1985</a>). A 175 kDa molecule also known as rat CD163, a member of the group B scavenger receptor cysteine-rich (SRCR) family and an erythroblast adhesion receptor (<a href="#">Fabriek et al. 2007</a>).</p> <p>Mouse anti rat CD163, clone ED2 was shown to detect approximately 50% of peritoneal macrophages, a subset of splenic macrophages, and most tissue macrophages. However, no staining was observed in monocytes or alveolar macrophages (<a href="#">Dijkstra et al. 1985</a>, <a href="#">Beelen et al. 1987</a>). In freshly isolated bone marrow, expression of CD163 was limited to mature macrophages only (<a href="#">Barbe et al. 1990</a>).</p> <p>Clone ED2 may be used in immunohistology using antigen retrieval, and has also been described reacting with paraffin-embedded material following PLP fixation (Periodate-lysine-paraformaldehyde), see <a href="#">Whiteland et al.</a></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>Dijkstra, C.D. <i>et al.</i> (1985) The heterogeneity of mononuclear phagocytes in lymphoid organs: distinct macrophage subpopulations in the rat recognized by monoclonal antibodies ED1, ED2 and ED3. <a href="#">Immunology. 54 (3): 589-99.</a></li> <li>Beelen, R.H.J. <i>et al.</i> (1987) Monoclonal antibodies ED1, ED2 and ED3 against rat macrophages: Expression of recognized antigens in different stages of differentiation. <a href="#">Transplant Proc. 3: 3166-70.</a></li> <li>Barbe, E. <i>et al.</i> (1990) Characterization and expression of the antigen present on resident rat macrophages recognized by monoclonal antibody ED2. <a href="#">Immunobiol. 182: 88-99.</a></li> <li>Dijkstra, C.D. &amp; Damoiseaux, J.G. (1993) Macrophage heterogeneity established by immunocytochemistry. <a href="#">Prog Histochem Cytochem. 27 (2): 1-65.</a></li> <li>Whiteland, J.L. <i>et al.</i> (1995) Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. <a href="#">J Histochem Cytochem. 43 (3): 313-20.</a></li> <li>Polfliet, M.M.J. <i>et al.</i> (2002) Identification of the rat mature macrophage antigen ED2 as CD163: Regulation by glucocorticoids and role in the production of proinflammatory mediators. PhD Thesis. Vrije University, Amsterdam.</li> <li>Deng, X. <i>et al.</i> (2005) Chronic alcohol consumption accelerates fibrosis in response to cerulein-induced pancreatitis in rats. <a href="#">Am J Pathol. 166 (1): 93-106.</a></li> <li>Piquet-Pellorce, I. <i>et al.</i> (2005) Identification of the leukemia inhibitory factor cell targets within the rat testis. <a href="#">Biol Reprod. 72: 602-11.</a></li> <li>Fujita, E. <i>et al.</i> (2010) Statin attenuates experimental anti-glomerular basement membrane glomerulonephritis together with the augmentation of alternatively activated</li> </ol>

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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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #20487 available at: 20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

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