

Datasheet: MCA342A647

Description:	MOUSE ANTI RAT CD163:Alexa Fluor® 647
Specificity:	CD163
Other names:	ED2
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	ED2
Isotype:	IgG1
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 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	Rat		
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 A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen	Rat Spleen cell homogenate.
RRID	AB_2074557
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.
Specificity	<p>Mouse anti Rat CD163, clone ED2 recognizes the rat ED2 cell surface glycoprotein (Dijkstra <i>et al.</i> 1985). 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 (Fabriek <i>et al.</i> 2007).</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 (Dijkstra <i>et al.</i> 1985, Beelen <i>et al.</i> 1987). In freshly isolated bone marrow, expression of CD163 was limited to mature macrophages only (Barbe <i>et al.</i> 1990).</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 Whiteland <i>et al.</i></p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 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. Immunology. 54 (3): 589-99. 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. Transplant Proc. 3: 3166-70. Barbe, E. <i>et al.</i> (1990) Characterization and expression of the antigen present on resident rat macrophages recognized by monoclonal antibody ED2. Immunobiol. 182: 88-99. Dijkstra, C.D. & Damoiseaux, J.G. (1993) Macrophage heterogeneity established by immunocytochemistry. Prog Histochem Cytochem. 27 (2): 1-65. 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. J Histochem Cytochem. 43 (3): 313-20. 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. Deng, X. <i>et al.</i> (2005) Chronic alcohol consumption accelerates fibrosis in response to cerulein-induced pancreatitis in rats. Am J Pathol. 166 (1): 93-106. Piquet-Pellorce, I. <i>et al.</i> (2005) Identification of the leukemia inhibitory factor cell targets within the rat testis. Biol Reprod. 72: 602-11. Fujita, E. <i>et al.</i> (2010) Statin attenuates experimental anti-glomerular basement membrane glomerulonephritis together with the augmentation of alternatively activated

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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

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Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1209A647\)](#)

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