# Datasheet: MCA497A700 BATCH NUMBER 150383

Description:	RAT ANTI MOUSE F4/80:Alexa Fluor® 700
Specificity:	F4/80
Format:	ALEXA FLUOR® 700
Product Type:	Monoclonal Antibody
Clone:	CI:A3-1
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 <u>www.bio-rad-antibodies.com/protocols</u> .							
		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 as a guide only. It is re system using appropria	commended	that the	user titrates the antiboo	• •			
Target Species	Mouse							
Product Form	Purified IgG conjugated to Alexa Fluor® 700 - liquid							
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)				
	Alexa Fluor®700	702		723				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.							
Buffer Solution	Phosphate buffered sa	line						
Preservative	0.09% Sodium Azide							
Stabilisers	1% Bovine Serum A	Albumin						
Approx. Protein Concentrations	IgG concentration 0.05	mg/ml						

### Immunogen Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.

External Database Links	UniProt: <u>Q61549</u> <u>Related reagents</u>					
	Entrez Gene: <u>13733</u> Emr1 <u>Related reagents</u>					
Synonyms	Gpf480					
RRID	AB_844537					
Fusion Partners	Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.					
Specificity	<b>Rat anti mouse F4/80 antibody, clone CI:A3-1</b> recognizes the <u>murine F4/80 antigen</u> , a ~160 kDa cell surface glycoprotein member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucin-like hormone receptor 1 (EMR1).					
	Expression of F4/80 is heterogeneous and is modulated during macrophage maturation and activation. The F4/80 antigen is expressed on a wide range of mature tissue macrophages including Kupffer cells, Langerhans cells, microglia, macrophages located the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen ( <u>Hume, <i>et al.</i> 1984</u> ). F4/80 antigen is also expressed on a subpopulation of dendritic cells but is absent from macrophages located T cell areas of the spleen and lymph node ( <u>Gordon, <i>et al.</i> 1994</u> ). The ligands and biological functions of the F4/80 antigen have not been fully determined but a role for F4/80 in the generation of efferent CD8+ve regulatory T cells is proposed ( <u>Lin, <i>et al.</i> 200</u>					
	Rat anti mouse F4/80 antibody, clone Cl:A3-1 modulates cytokine levels released in response to <i>Listeria monocytogenes</i> (Warschkau & Kiderlen, 1999).					
	A Human anti-idiotypic CI:A31 antibody, clone 17867 ( <u>HCA154</u> ) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone CI:A3-1 is also available for use as a control in experiments utilizing clone A3-1.					
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.					
References	<ol> <li>Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine tissues. <u>Curr Top Microbiol Immunol. 181: 1-37.</u></li> <li>Warschkau, H. &amp; Kiderlen, A.F. (1999) A monoclonal antibody directed against the murine macrophage surface molecule F4/80 modulates natural immune response to <i>Listeria monocytogenes</i>. <u>J Immunol. 163 (6): 3409-16.</u></li> <li>Lin, H.H.<i>et al.</i> (2005) The macrophage F4/80 receptor is required for the induction of antigen-specific efferent regulatory T cells in peripheral tolerance. <u>J Exp Med. 201 (10): 1615-25.</u></li> </ol>					

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