## Datasheet: MCA497A488 BATCH NUMBER 0215

Description:	RAT ANTI MOUSE F4/80:Alexa Fluor® 488
Specificity:	F4/80
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	Cl:A3-1
Isotype:	lgG2b
Quantity:	100 TESTS/1ml

## **Product Details**

Applications	This product has been derived from testing wit communications from th information. For genera rad-antibodies.com/pro	hin our labor ne originators Il protocol rec	atories, s. Pleas	peer-reviewed publicate e refer to references in	tions or personal dicated for further
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat - 1/10
	Where this antibody ha	s not been te	ested for	use in a particular tec	hnique this does not
	necessarily exclude its as a guide only. It is rec system using appropria	commended	that the	user titrates the antibo	• •
Target Species	Mouse				
Product Form	Purified IgG conjugated	l to Alexa Flu	uor® 488	3 - liquid	
Max Ex/Em	Fluorophore	Excitation Ma	ax (nm)	Emission Max (nm)	
	Alexa Fluor®488	495		519	
Preparation	Purified IgG prepared b supernatant.	y affinity chr	omatogr	aphy on Protein G fron	n tissue culture
Buffer Solution	Phosphate buffered sal	ine			
Preservative	0.09% Sodium Azide				
Stabilisers	1% Bovine Serum A	lbumin			
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_321210
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 in the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and macrophages in the red pulp of the spleen (Hume, <i>et al.</i> 1984). F4/80 antigen is also expressed on a subpopulation of dendritic cells but is absent from macrophages located in T cell areas of the spleen and lymph node (Gordon, <i>et al.</i> 1994). 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 (Lin, <i>et al.</i> 2005)
	Rat anti mouse F4/80 antibody, clone CI: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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Guarantee	12 months from date of despatch					
	Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.					
	Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.					
	This product should be stored undiluted.					
Storage	Store at +4°C or at -20°C if preferred.					
	progression of interstitial fibrosis through oxidative stress in diabetic nephropathy in mice <u>Sci Rep. 11 (1): 9093.</u> 100. Xu, H. <i>et al.</i> (2021) Adipocyte Inducible 6-phosphofructo-2-kinase Suppresses Adipose Tissue Inflammation and Promotes Macrophage Anti-inflammatory Activation. <u>J</u> <u>Nutr Biochem. May 5;108764 [Epub ahead of print].</u>					
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