## Datasheet: MCA497PBT BATCH NUMBER 1602

Description:	RAT ANTI MOUSE F4/80:Pacific Blue®
Specificity:	F4/80
Format:	Pacific Blue®
Product Type:	Monoclonal Antibody
Clone:	CI:A3-1
Isotype:	lgG2b
Quantity:	25 TESTS/0.25ml

## **Product Details**

Applications	derived from testing wit communications from t	hin our laboratorie ne originators. Plea Il protocol recomm	the following application s, peer-reviewed publicat ase refer to references in endations, please visit <u>w</u>	tions or personal dicated for further
		Yes No	Not Determined	Suggested Dilution
	Flow Cytometry	•		Neat - 1/5
	Where this antibody ha	s not been tested	or use in a particular tecl	hnique this does not
	•	commended that th	lures. The suggested wo e user titrates the antibo e controls.	• •
Target Species	Mouse			
Product Form	Purified IgG conjugated	to Pacific Blue® -	liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm	) Emission Max (nm)	
	Pacific Blue®	410	455	
Preparation	Purified IgG prepared b supernatant.	by affinity chromato	graphy on Protein G fron	n tissue culture
Buffer Solution	Phosphate buffered sal	ine		
Preservative Stabilisers	0.09% Sodium Azide 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_1102557
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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Storage		Store at +4°C or at -20°C if preferred.			
		<ul> <li>progression of interstitial fibrosis through oxidative stress in diabetic nephropathy in mice <u>Sci Rep. 11 (1): 9093.</u></li> <li>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></li> <li><u>Nutr Biochem. May 5;108764 [Epub ahead of print].</u></li> </ul>			
		<ul> <li>in nonsteroidal anti-inflammatory drug-induced small intestinal damage. <u>PLoS One. 16 (second second </u></li></ul>			
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