

## Datasheet: MCA497SBV570

**BATCH NUMBER 100005199**

<b>Description:</b>	RAT ANTI MOUSE F4/80:StarBright Violet 570
<b>Specificity:</b>	F4/80
<b>Format:</b>	StarBright Violet 570
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Cl:A3-1
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	100 TESTS/0.5ml

### 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

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to StarBright Violet 570 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	StarBright Violet 570	402	570
<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 (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
	0.1% Pluronic F68		
	0.1% PEG 3350		
	0.05% Tween 20		

<b>Immunogen</b>	Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q61549</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">13733</a>    Emr1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Gpf480
<b>Fusion Partners</b>	Spleen cells from immunized HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse F4/80 antibody, clone A3-1</b> recognizes the <a href="#">murine F4/80 antigen</a>, 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).</p> <p>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 (<a href="#">Hume, et al. 1984</a>). 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 (<a href="#">Gordon, et al. 1994</a>). 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 (<a href="#">Lin, et al. 2005</a>)</p> <p>Rat anti mouse F4/80 antibody, clone Cl:A3-1 modulates cytokine levels released in response to <i>Listeria monocytogenes</i> (<a href="#">Warschkau &amp; Kiderlen, 1999</a>).</p> <p>A Human anti-idiotypic Cl:A31 antibody, clone 17867 (<a href="#">HCA154</a>) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone Cl:A3-1 is also available for use as a control in experiments utilizing clone A3-1.</p>
<b>Flow Cytometry</b>	Use 5ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
<b>References</b>	<ol style="list-style-type: none"> <li>Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine tissues. <a href="#">Curr Top Microbiol Immunol. 181: 1-37.</a></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>. <a href="#">J Immunol. 163 (6): 3409-16.</a></li> <li>Moore, K.J. <i>et al.</i> (2000) Divergent response to LPS and bacteria in CD14-deficient murine macrophages. <a href="#">J Immunol. 165 (8): 4272-80.</a></li> <li>Brown, G.D. <i>et al.</i> (2002) Dectin-1 is a major beta-glucan receptor on macrophages. <a href="#">J Exp Med. 196: 407-12.</a></li> </ol>

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<b>Acknowledgements</b>	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
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