Datasheet: MCA497A647T BATCH NUMBER 151607

Description:	RAT ANTI MOUSE F4/80:Alexa Fluor® 647
Specificity:	F4/80
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	CI:A3-1
Isotype:	lgG2b
Quantity:	25 TESTS/0.25ml

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 use in such procedures. The suggested working dilution is giver as a guide only. It is recommended that the user titrates the antibody for use in their ow system using appropriate negative/positive controls.				
Target Species	Mouse				
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid				
Max Ex/Em	Fluorophore Alexa Fluor®647	Excitation Ma 650	ax (nm)	Emission Max (nm) 665	
Preparation	Purified IgG prepared b supernatant.	y affinity chr	omatogr	aphy on Protein G from	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			

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_2079988
Fusion Partners	Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Rat anti mouse F4/80 antibody, clone CI:A3-1 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 ⁶ cells in 100ul.
References	 Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine tissues. <u>Curr Top Microbiol Immunol. 181: 1-37.</u> Warschkau, H. & 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> 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>

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		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.					
		Sci Rep. 11 (1): 9093. 100. Xu, H. <i>et al.</i> (2021) Adipocyte Inducible 6-phosphofructo-2-kinase Suppresses Adipose Tissue Inflammation and Promotes Macrophage Anti-inflammatory Activation. J Nutr Biochem. May 5;108764 [Epub ahead of print].					
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