

Datasheet: MCA497FA BATCH NUMBER 149132

Description:	RAT ANTI MOUSE F4/80:FITC		
Specificity:	F4/80		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	CI:A3-1		
lsotype:	lgG2b		
Quantity:	50 µg		

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	
	Immunofluorescence	•				
	Where this antibody han necessarily exclude its as a guide only. It is re system using appropri	s use in such p ecommended t	procedure hat the u	es. The suggested wo ser titrates the antibo	•	
Target Species	Mouse					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm)		
	FITC	490		525		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum /	Albumin				
Approx. Protein	IgG concentration 0.1	mg/ml				

Concentrations

Immunogen	Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.
External Database	
Links	UniProt:
	Q61549 Related reagents
	Entrez Gene:
	13733 Emr1 Related reagents
Synonyms	Gpf480
RRID	AB_567113
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 (<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 in 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> 2005</u>)
	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 (HCA154) 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	1. Gordon, S. et al. (1992) Antigen markers of macrophage differentiation in murine
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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].					
Storage Store at +4°C or at -20°C if preferred. This product should be stored undiluted.					
Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.					
product contain a precipitate we recommend microcentrifugation before use.					
12 months from date of despatch					
Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA497FA 10041					
For research purposes only					
3751 Fax: +44 (0)1865 852 739	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com o-rad-antibodies.com/datasheets				
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