Datasheet: MCA497BT BATCH NUMBER 1608

Description:	RAT ANTI MOUSE F4/80:Biotin			
Specificity:	F4/80			
Format:	Biotin			
Product Type:	Monoclonal Antibody			
Clone:	CI:A3-1			
lsotype:	lgG2b			
Quantity:	25 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		
	Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.						
Target Species	Mouse						
Product Form	Purified IgG conjugated	to Biotin -	liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered salir	ne					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.1 m	g/ml					
Immunogen	Thioglycollate stimulated	l peritonea	l macropl	hages from C57BL/6 r	nice.		

External Database	
Links	UniProt: Q61549 Related reagents
	<u>Q01349</u> <u>Related reagents</u>
	Entrez Gene:
	<u>13733</u> Emr1 <u>Related reagents</u>
Synonyms	Gpf480
RRID	AB_1102552
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 (<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.
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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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA497BT 10041
Regulatory	For research purposes only
Related Produ	cts

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