

Datasheet: BUF041B BATCH NUMBER 162075

Description:	MOUSE SEROBLOCK FcR
Name:	MOUSE SEROBLOCK FCR
Other names:	CD16/CD32
Format:	Reagent
Product Type:	Accessory Reagent
Clone:	FCR4G8
Isotype:	lgG2b
Quantity:	0.5 mg

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						
	Where this product has necessarily exclude its us a guide only. It is recomn system using appropriate	se in such nended tha	procedur at the use	es. Suggested worki r titrates the product	ing dilutions are given as		
Target Species	Mouse						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by supernatant	affinity ch	romatogra	aphy on Protein G fro	om tissue culture		
Buffer Solution	Phosphate buffered salin	е					
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)					
Approx. Protein Concentrations	IgG concentration 1.0mg	/ml					
Immunogen	PU5 1.8 IOE7 Balb/c mo	use cell lir	ie.				

Product Information	Mouse Seroblock FcR is a rat antibody that recognizes mouse CD16 and CD32, cell surface proteins also known as FcRyIII and FcRyII, respectively. The function of these proteins is to bind IgG molecules via their Fc regions as part of the adaptive immune response. CD16 and/or CD32 are expressed by a wide variety of cells, including monocytes, macrophages, B lymphocytes, granulocytes, NK cells, dendritic cells and some activated T lymphocytes. The expression of CD16/CD32 antigens can lead to non-specific binding of test monoclonal antibodies in staining procedures, resulting in "high background" staining on a wide range of cells. This non-specific binding may be blocked by pre-incubation of target cells with BUF041A, resulting in clearer staining. For direct analysis of CD16/32 expression this antibody is also available conjugated directly to FITC (MCA2305F), AlexaFluor488 (MCA2305A488), AlexaFluor647 (MCA2305A647) and RPE (MCA2305PE).
Instructions For Use	In order to reduce Fc-receptor mediated binding of test antibodies the following procedure is recommended:-
	1) Incubate the cell suspension (1 x 10^6 cells in 100ul) with 1ug of BUF041B (1ul of undiluted reagent, or 10ul of a 1/10 dilution) for 5-10 minutes.
	2) Add test antibody according to manufacturers instructions – Do not wash BUF041B off the cells. BUF041B is suitable for use in conjunction with test antibodies from any manufacturer or with in-house antibodies.*
	3) Proceed with staining as usual.
	* Care is needed in the design of experiments utilizing unconjugated anti-mouse antibodies, to ensure that the secondary antibody being used does not cross-react with SeroBlock FcR. Bio-Rad supply a range of isotype specific anti-mouse immunoglobulin antibodies that may be useful for this purpose.
References	1. Ivanovska, N.D. <i>et al.</i> (2008) Properdin deficiency in murine models of nonseptic shock. J Immunol. 180 (10): 6962-9.
	2. Chen, H-F <i>et al</i> . (2009) A reduced oxygen tension (5%) is not beneficial for maintaining human embryonic stem cells in the undifferentiated state with short splitting intervals. <u>Human Reproduction. 24: 71-80.</u>
	3. Birjandi, S.Z. <i>et al.</i> (2011) Alterations in marginal zone macrophages and marginal zone B cells in old mice. <u>J Immunol. 186: 3441-51.</u>
	4. Cousins, F.L. <i>et al.</i> (2016) Evidence for a dynamic role for mononuclear phagocytes during endometrial repair and remodelling. <u>Sci Rep. 6: 36748.</u>
	5. Chiang, M.K. <i>et al.</i> (2021) Two ST11 <i>Klebsiella pneumoniae</i> strains exacerbate colorectal tumorigenesis in a colitis-associated mouse model. <u>Gut Microbes. 13 (1):</u> <u>1980348.</u>
	6. Brulin, B. <i>et al.</i> (2021) Evaluation of the Chemotherapy Drug Response Using Organotypic Cultures of Osteosarcoma Tumours from Mice Models and Canine Patients. <u>Cancers (Basel). 13 (19): 4890.</u>
	7. Bonet, A. <i>et al.</i> (2021) Decreased endostatin in db/db retinas is associated with optic disc intravitreal vascularization. <u>Exp Eye Res. 212: 108801.</u>

	8. Satofuka, H. <i>et al.</i> (2022) Efficient human-like ar	ntibody repe	rtoire and hybridoma		
	•	romosomic mice carrying me	egabase-size	ed human immunoglobulin		
	loci. <u>Nat Commun. 13</u> 9 Dorfman M.D. et al	<u>(1): 1841.</u> /. (2023) Central androgen ad	ction reverse	es hypothalamic astropliosis		
		fat diet feeding in male				
	mice. <u>Am J Physiol Er</u>	ndocrinol Metab. 324 (5): E46	<u>61-E475.</u>	-		
	10. Fernandez, J.L. <i>et al.</i> (2023) A Comparative Analysis of Orthotopic an					
	(Basel). 15 (22): 5415	odels: Tumour Microenvironn	nent and Dru	lg Delivery. <u>Cancers</u>		
		- 3) Endotoxin Tolerance Crea	tes Favoura	ble Conditions for Cancer		
	Development. <u>Cancer</u>	<u>s (Basel). 15 (20): 5113.</u>				
Storage	This product is shippe	d at ambient temperature. It	is recomme	nded to aliquot and store at		
	-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for					
	short term use (up to 4	4 weeks) and store the remain	ining aliquot	s at -20°C.		
	Avoid repeated freezir	ng and thawing as this may d	lenature the	antibody. Storage in		
	frost-free freezers is n	ot recommended.				
Guarantee	Guarantee 12 months from date of despatch					
Health And Safety	Material Safety Datasl	heet documentation #10040 a	available at:			
Information <u>https://www.bio-rad-antibodies.com/SDS/BUF041B</u>						
	10040					
Regulatory	For research purposes	s only				
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