

Datasheet: MCA1195PE BATCH NUMBER INN1603

Description:	MOUSE ANTI HUMAN CD21:RPE	
Specificity:	CD21	
Other names:	CR2	
Format:	RPE	
Product Type:	Monoclonal Antibody	
Clone:	LB21	
Isotype:	lgG1	
Quantity:	100 TESTS	

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 - 1/5
	necessarily exclude its	s use in such proce mmended that the	for use in a particular teo edures. Suggested workin user titrates the antibody ve controls.	ng dilutions are given as
Target Species	Human			
Species Cross Reactivity	Reacts with: Sheep, Mink, Bovine, Goat, Cat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.			
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Iyophilized			
Reconstitution	Reconstitute with 1 ml distilled water			
Max Ex/Em	Fluorophore	Excitation Max (n	n) Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepared by ion exchange chromatography			

Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers			
	1% Bovine Serum Albumin		
Immunogen	Human IM9 cell line.		
External Database			
Links	UniProt:		
	P20023 Related reagents		
	Entrez Gene:		
	1380 CR2 Related reagents		
Synonyms	C3DR		
RRID	AB_321348		
Fusien D. (
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.		
Specificity	Mouse anti Human CD21 antibody, clone LB21 recognizes the human Complement receptor type 2, also known as CD21 or the Epstein-Barr virus receptor. CD21 is a ~14 kDa cell surface glycoprotein expressed by mature B cells and by follicular dendritic cells. The molecule acts as a receptor for complement components C3d, C3dg and iC3b, as well as for Epstein Barr Virus. It forms part of a large signal transduction complex in association with CD19.		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood		
References	 cells in human T cell lymphotropic virus type I (HTLV-I)-associated myelopathy/tropical spastic paraparesis (HAM/TSP). <u>Clin Exp Immunol. 120 (2): 307-16.</u> 2. Griebel, P.J. <i>et al.</i> (2007) Cross-reactivity of mAbs to human CD antigens with sheep leukocytes. <u>Vet Immunol Immunopathol. 119: 115-22.</u> 3. Aasted, B. <i>et al.</i> (2007) Reactivity of monoclonal antibodies to human CD antigens with cells from mink. <u>Vet Immunol Immunopathol. 119: 27-37.</u> 4. Sopp, P. <i>et al.</i> (2007) Cross-reactivity of mAbs to human CD antigens with cells from cattle. <u>Vet Immunol Immunopathol. 119: 106-14.</u> 5. Davis, W.C. <i>et al.</i> (2007) Use of flow cytometry to identify monoclonal antibodies that recognize conserved epitopes on orthologous leukocyte differentiation antigens in goats, llamas, and rabbits. <u>Vet Immunol Immunopathol. 119: 123-30.</u> 6. Aichem, A. <i>et al.</i> (2006) Redox regulation of CD21 shedding involves signaling via PKC and indicates the formation of a juxtamembrane stalk. <u>J Cell Sci. 119: 2892-902.</u> 7. Angel, C.E. <i>et al.</i> (2009) Distinctive localization of antigen-presenting cells in human lymph nodes. <u>Blood. 113: 1257-67.</u> 8. Sengstake, S. <i>et al.</i> (2006) CD21 and CD62L shedding are both inducible via P2X7Rs. 		
	Int Immunol. 18: 1171-8.		

	 9. Clutterbuck, E.A. <i>et al.</i> (2012) Pneumococcal conjugate and plain polysaccharide vaccines have divergent effects on antigen-specific B cells. J Infect Dis. 205: 1408-16. 10. Meister, R.K. <i>et al.</i> (2007) Progress in the discovery and definition of monoclonal antibodies for use in feline research. <u>Vet Immunol Immunopathol. 119: 38-46.</u> 11. Damgaard, B.M. <i>et al.</i> (2012) The effects of feed restriction on physical activity, body weight, physiology, haematology and immunology in female mink. <u>Res Vet Sci. 93:</u> 936-42.
	12. Stachowiak, B. & Weingartl, H.M. (2012) Nipah virus infects specific subsets of
	porcine peripheral blood mononuclear cells. <u>PLoS One. 7 (1): e30855.</u>
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
	DO NOT FREEZE.
	This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1195PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	
America	Fax: +1 919 878 3751	
	Email: antibody_sales_us@bio	

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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