Datasheet: MCA1940PB BATCH NUMBER 0315

Description:	MOUSE ANTI HUMAN CD19:Pacific Blue®
Specificity:	CD19
Format:	Pacific Blue®
Product Type:	Monoclonal Antibody
Clone:	LT19
lsotype:	lgG1
Quantity:	100 TESTS/1ml

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 N	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 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	Human						
Product Form	Purified IgG conjugated to Pacific Blue® - liquid						
Max Ex/Em	Fluorophore	Excitation Max	(nm) Er	nission Max (nm)			
	Pacific Blue®	410		455			
Preparation	Purified IgG from ascites prepared by precipitation and ion exchange chromatography.						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum	Albumin					
Approx. Protein Concentrations	IgG concentration 0.0	5 mg/ml					

External Database Links	UniProt: P15391 Related reagents Entrez Gene: 930 CD19 Related reagents				
RRID	AB_566591				
Specificity	Mouse anti Human CD19 antibody, clone LT19 recognizes human CD19 also known as T-cell surface antigen Leu-12 or B-lymphocyte surface antigen B4. CD19 is a ~95 kDa type I single pass transmembrane glycoprotein expressed on follicular dendritic cells and B-cells during maturation but is lost on development into plasma cells (de Rie <i>et al.</i> 1989).				
	CD19 is the broadest lineage specific marker for B cells and functions as a B-cell co-receptor in conjunction with CD21 (<u>Bradbury <i>et al.</i> 1992</u>), CD9, CD81 and CD82 (<u>Horváth <i>et al.</i> 1998</u>). CD19 is implicated in the down-regulation of B cell growth and proliferation (<u>Pezzutto <i>et al.</i> 1987</u>).				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1 x 10^6 cells in 100ul				
References	 Use 10ul of the suggested working dilution to label 1 x 10° cells in 100ul 1. Hughes, G.J. <i>et al.</i> (2007) Virus immunocapture provides evidence of CD8 lymphocyl derived HIV-1 <i>in vivo</i>. AIDS. 21: 1507-13. 2. Allen, J.S. <i>et al.</i> (2009) Plasmacytoid dendritic cells are proportionally expanded at diagnosis of type 1 diabetes and enhance islet autoantigen presentation to T-cells throu immune complex capture. Diabetes. 58: 138-45. 3. McIntosh, K. <i>et al.</i> (2006) The immunogenicity of human adipose-derived cells: temporal changes <i>in vitro</i>. Stem Cells. 24: 1246-53. 4. Sengstake, S. <i>et al.</i> (2006) CD21 and CD62L shedding are both inducible via P2X7R Int Immunol. 18 (7): 1171-8. 5. Villarroel Dorrego, M. <i>et al.</i> (2006) Transfection of CD40 in a human oral squamous of carcinoma keratinocyte line upregulates immune potency and costimulatory molecules. J Dermatol. 154: 231-8. 6. Franz, B. <i>et al.</i> (2011) <i>Ex vivo</i> characterization and isolation of rare memory B cells w antigen tetramers. Blood. 118: 348-57. 7. Lacal, P.M. <i>et al.</i> (2011) Ex vivo characterization and isolation of rare memory B cells w antigen tetramers. Blood. 118: 348-57. 8. Franz, B. <i>et al.</i> (2011) Ex vivo characterization and isolation of rare memory B cells w antigen tetramers. Blood. 118: 348-57. 9. Girbl, T. <i>et al.</i> (2013) CD40-mediated activation of chronic lymphocytic leukemia cells promotes their CD44-dependent adhesion to hyaluronan and restricts CCL21-induced motility. Cancer Res. 73: 561-70. 10. Hertzberg, L. <i>et al.</i> (2010) Down syndrome acute lymphoblastic leukemia, a highly heterogeneous disease in which aberrant expression of CRLF2 is associated with mutat JAK2: a report from the International BFM Study Group. Blood. 115: 1006-17. 11. Kakko, T. <i>et al.</i> (2011) Inflammatory effects of blood leukocytes: association with 				

Related Produc	
Regulatory	For research purposes only
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1940PB 10041
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Guarantee	18 months from date of despatch.
	Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
	Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted.
	 vascular function in neuropeptide Y proline 7-genotyped type 2 diabetes patients. <u>Diab</u> <u>Vasc Dis Res. 8: 221-8.</u> 12. Dorvignit, D. <i>et al.</i> (2012) Expression and biological characterization of an anti-CD20 biosimilar candidate antibody: a case study. <u>MAbs. 4 (4): 488-96.</u> 13. Karlsen, M. <i>et al.</i> (2015) TLR-7 and -9 Stimulation of Peripheral Blood B Cells Indicate Altered TLR Signalling in Primary Sjögren's Syndrome Patients by Increased Secretion of Cytokines. <u>Scand J Immunol. 82 (6): 523-31.</u> 14. Clark, L.E. <i>et al.</i> (2018) Vaccine-elicited receptor-binding site antibodies neutralize two New World hemorrhagic fever arenaviruses. <u>Nat Commun. 9 (1): 1884.</u> 15. Gu, Y. <i>et al.</i> (2019) Defining the structural basis for human alloantibody binding to human leukocyte antigen allele HLA-A*11:01. <u>Nat Commun. 10 (1): 893.</u>

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Pacific Blue® (MCA928PB)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.o	com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M352799:190408'

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