Datasheet: MCA1940SBY575 BATCH NUMBER 100007238

Description:	MOUSE ANTI HUMAN CD19:StarBright Yellow 575			
Specificity:	CD19			
Format:	StarBright Yellow 575			
Product Type:	Monoclonal Antibody			
Clone:	LT19			
Isotype:	lgG1			
Quantity:	100 TESTS/0.5ml			

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 genera	al protocol reco	mmend	lations, please visit <u>w</u>	ww.bio-	
	rad-antibodies.com/pro	tocols.				
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			Neat	
	Where this product 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 product for use in their own system using appropriate negative/positive controls.					
Target Species	Human					
Product Form	Purified IgG conjugated to StarBright Yellow 575 - liquid					
Max Ex/Em	Fluorophore	Excitation Max	(nm)	Emission Max (nm)		
	StarBright Yellow 575	548		579		
Preparation	Purified IgG prepared t supernatant	by affinity chror	natogra	aphy on Protein A from	n tissue culture	
Buffer Solution	Phosphate buffered saline					
Preservative	0.09% Sodium Azide (NaN ₃)					
Stabilisers	1% Bovine Serum Albumin					
	0.1% Pluronic F68					
	0.1% PEG 3350					
	0.05% Tween 20					

External Database Links Specificity	UniProt: P15391 Related reagents Entrez Gene: 930 CD19 Related reagents 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 (<u>de Rie <i>et al.</i> 1989</u>) 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 5 μ I of the suggested working dilution to label 10 ⁶ cells in 100 μ I. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.					
References	 Hughes, G.J. <i>et al.</i> (2007) Virus immunocapture provides evidence of CD8 lymphocyte- derived HIV-1 <i>in vivo</i>. <u>AIDS. 21: 1507-13.</u> 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 through immune complex capture. <u>Diabetes. 58: 138-45.</u> McIntosh, K. <i>et al.</i> (2006) The immunogenicity of human adipose-derived cells: temporal changes <i>in vitro</i>. <u>Stem Cells. 24: 1246-53.</u> Sengstake, S. <i>et al.</i> (2006) CD21 and CD62L shedding are both inducible via P2X7Rs. <u>Int Immunol. 18 (7): 1171-8.</u> Villarroel Dorrego, M. <i>et al.</i> (2006) Transfection of CD40 in a human oral squamous cell carcinoma keratinocyte line upregulates immune potency and costimulatory molecules. <u>Br</u> <u>J Dermatol. 154: 231-8.</u> Franz, B. <i>et al.</i> (2011) <i>Ex vivo</i> characterization and isolation of rare memory B cells with antigen tetramers. <u>Blood. 118: 348-57.</u> Lacal, P.M. <i>et al.</i> (2013) Glucocorticoid-induced tumor necrosis factor receptor family- related ligand triggering upregulates vascular cell adhesion molecule-1 and intercellular adhesion molecule-1 and promotes leukocyte adhesion. <u>J Pharmacol Exp Ther. 347:</u> <u>164-72.</u> Franz, B. <i>et al.</i> (2011) Ex vivo characterization and isolation of rare memory B cells with antigen tetramers. <u>Blood. 118: 348-57.</u> Girbl, T. <i>et al.</i> (2011) Ex vivo characterization and isolation of rare memory B cells with antigen tetramers. <u>Blood. 118: 348-57.</u> 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. <u>Cancer Res. 73: 561-70.</u> 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 mutated JAK2: a report from the Internation					

	 <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>				
	16. Yang, C. <i>et al.</i> (2013) B cells promote tumor progression via STAT3 regulated- angiogenesis. <u>PLoS One. 8 (5): e64159.</u>				
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.				
Guarantee	12 months from date of despatch				
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts				
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1940SBY575 20471				
Regulatory	For research purposes only				

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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-ra	ad.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 'M413716:221125'

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