

# Datasheet: MCA1940SBV515

Description:	MOUSE ANTI HUMAN CD19:StarBright Violet 515
Specificity:	CD19
Format:	StarBright Violet 515
Product Type:	Monoclonal Antibody
Clone:	LT19
Isotype:	lgG1
Quantity:	100 TESTS/0.5ml

### **Product Details**

Applications	derived from testing w	peer-reviewed publica e refer to references ir	ications. This information is ublications or personal ces indicated for further visit <u>www.bio-</u>		
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat
	Where this product ha	is not been test	ed for	use in a particular tech	nnique this does not
	necessarily exclude its a guide only. It is reco system using appropri	mmended that	the use	er titrates the product f	g dilutions are given as or use in their own
Target Species	Human				
Product Form	Purified IgG conjugated to StarBright Violet 515 - liquid				
Max Ex/Em	Fluorophore	Excitation Max	k (nm)	Emission Max (nm)	
	StarBright Violet 515	402		516	
Preparation	Purified IgG prepared supernatant	by affinity chro	matogr	aphy on Protein A fror	n tissue culture
Buffer Solution	Phosphate buffered saline				
Preservative	0.09% sodium azide (NaN <sub>3</sub> )				
Stabilisers	1% bovine serum albumin				
	0.1% Pluronic F68				
	0.1% PEG 3350				
	0.05% Tween 20				

Approx. Protein Concentrations	For information on the concentration of our StarBright Dye conjugated reagents please visit our <u>FAQ</u> page.		
External Database Links	UniProt: <u>P15391</u> <u>Related reagents</u> Entrez Gene: <u>930</u> CD19 <u>Related reagents</u>		
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 (Bradbury <i>et al.</i> 1992), CD9, CD81 and CD82 (Horváth <i>et al.</i> 1998). CD19 is implicated in the down-regulation of B cell growth and proliferation (Pezzutto <i>et al.</i> 1987).		
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.		
References	<ol> <li>Hughes, G.J. <i>et al.</i> (2007) Virus immunocapture provides evidence of CD8 lymphocyte- derived HIV-1 <i>in vivo</i>. AIDS. 21: 1507-13.</li> <li>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</u>. 58: 138-45.</li> <li>McIntosh, K. <i>et al.</i> (2006) The immunogenicity of human adipose-derived cells: temporal changes <i>in vitro</i>. <u>Stem Cells</u>. 24: 1246-53.</li> <li>Sengstake, S. <i>et al.</i> (2006) CD21 and CD62L shedding are both inducible via P2X7Rs. Int Immunol. 18 (7): 1171-8.</li> <li>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.</u> 154: 231-8.</li> <li>Franz, B. <i>et al.</i> (2011) <i>Ex vivo</i> characterization and isolation of rare memory B cells with antigen tetramers. <u>Blood.</u> 118: 348-57.</li> <li>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.</u> 347: 164-72.</li> <li>Franz, B. <i>et al.</i> (2011) Ex vivo characterization and isolation of rare memory B cells with antigen tetramers. <u>Blood.</u> 118: 348-57.</li> <li>Girbl, T. <i>et al.</i> (2011) Ex vivo characterization and isolation of rare memory B cells with antigen tetramers. <u>Blood.</u> 118: 348-57.</li> <li>Girbl, T. <i>et al.</i> (2011) Ex vivo characterization and isolation of rare memory B cells with antigen tetramers. <u>Blood.</u> 118: 348-57.</li> <li>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.</u> 73: 561-70.</li> <li>Hertzberg, L. <i>et al.</i> (2010) Down syndrome acute lymphoblastic</li></ol>		

	JAK2: a report from the International BFM Study Group. <u>Blood. 115: 1006-17.</u>			
	11. Kakko, T. et al. (2011) Inflammatory effects of blood leukocytes: association with			
	vascular function in neuropeptide Y proline 7-genotyped type 2 diabetes patients. Diab			
	<u>Vasc Dis Res. 8: 221-8.</u>			
	12. Dorvignit, D. et al. (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	10 months from data of despatch			
Guarantee	12 months from date of despatch			
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and re	lated U.S. and foreign		
	counterparts			
Health And Safety	Material Safety Datasheet documentation #20471 available at	:		
Information	https://www.bio-rad-antibodies.com/SDS/MCA1940SBV515			
	20471			
De mula é a mu				
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-rad.com		Email: antibody_sales_uk@bio-rad.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 'M435283:250224'

#### Printed on 10 Apr 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint