

Datasheet: MCA1940A647T BATCH NUMBER 154338

Description:	MOUSE ANTI HUMAN CD19:Alexa Fluor® 647
Specificity:	CD19
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	LT19
Isotype:	lgG1
Quantity:	25 TESTS/0.25ml

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 - 1/10		
	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 as 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 Alexa Fluor® 647 - liquid						
Max Ex/Em	Fluorophore Alexa Fluor®647	Excitation Ma	x (nm)	Emission Max (nm) 665	-		
Preparation	Purified IgG prepared b supernatant	by affinity chro	matogra	aphy on Protein A fro	om tissue culture		
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin						
Approx. Protein Concentrations	IgG concentration 0.05	mg/ml					

External Database Links	UniProt: <u>P15391</u> <u>Related reagents</u> Entrez Gene: <u>930</u> CD19 <u>Related reagents</u>				
RRID	AB_1101042				
Specificity	ty Mouse anti Human CD19 antibody, clone LT19 recognizes human CD19 also known 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 an B-cells during maturation but is lost on development into plasma cells (<u>de Rie <i>et al.</i> 198</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 10ul of the suggested working dilution to label 10 ⁶ or 100ul whole blood.				
References	 Use foul of the suggested working dilution to label 10° of 1000 whole blood. 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. 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. 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. Sengstake, S. <i>et al.</i> (2006) CD21 and CD62L shedding are both inducible via P2X7Rs. Int Immunol. 18 (7): 1171-8. 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> J Dermatol. 154: 231-8. 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. 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. 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. 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. 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 International BFM Study Group. <u>Blood</u>, 115: 1006-17. Kakko, T.				

	 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> 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 or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.
	Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
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 purchase 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
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1940A647T 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 (MCA928A647)

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@b	bio-rad.com	Email: antibody_sales_uk@bic	-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 'M365931:200529'

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