

Datasheet: MCA1940APC BATCH NUMBER INN1603

Description:	MOUSE ANTI HUMAN CD19:APC		
Specificity:	CD19		
Format:	APC		
Product Type:	Monoclonal Antibody		
Clone:	LT19		
lsotype:	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		
	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 Allophycocyanin (APC) - lyophilised						
Reconstitution	Reconstitute with 1 ml distilled water						
Max Ex/Em	Fluorophore	Excitation M	ax (nm)	Emission Max (nm)			
	APC	650		661			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum A 5% Sucrose	Albumin					

External Database					
Links	UniProt:				
	P15391 Related reagents				
	Entrez Gene:				
	930 CD19 Related reagents				
RRID	AB_566588				
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				
	(<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 cells or cells or 100ul whole blood.				
References					

	 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	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
J	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/MCA1940APC 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: APC (MCA928APC)

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	d.com	Email: antibody_sales_uk@bio-ra	id.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 'M375388:210104'

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