

Datasheet: MCA1940EL BATCH NUMBER 0612R

Description:	MOUSE ANTI HUMAN CD19:Low Endotoxin
Specificity:	CD19
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	LT19
Isotype:	lgG1
Quantity:	0.5 mg

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	-			1/50 - 1/100
	Immunohistology - Frozen	-			
	Immunohistology - Paraffin			•	
	ELISA			•	
	Immunoprecipitation	-			
	Western Blotting			•	
	Where this antibody has not been tested for use in a particular technique this does no necessarily exclude its use in such procedures. Suggested working dilutions are giver a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.				ng dilutions are given as
Target Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG from ascites	prepared	by precip	itation and ion exchar	ige chromatography.
Buffer Solution	Phosphate buffered salin	е			
Preservative Stabilisers	None present				
Endotoxin Level	<0.01 EU/ug				

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
External Database Links	UniProt: P15391 Related reagents Entrez Gene: 930 CD19 Related reagents			
RRID	AB_566587			
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 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.			
References	 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. <u>Int Immunol</u>. 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> <u>J Dermatol</u>. 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> (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> (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 lymphoblasti			

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	biosimilar candidate antibody: a case study. <u>MAbs. 4 (4): 488-96.</u>				
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	Altered TLR Signalling in Primary Sjögren's Syndrome Patients by Increased Secretion of				
	Cytokines. Scand J Immunol. 82 (6): 523-31.				
	14. Clark, L.E. et al. (2018) Vaccine-elicited receptor-binding site antibodies neutralize two				
	New World hemorrhagic fever arenaviruses. <u>Nat Commun. 9 (1): 1884.</u>				
	15. Gu, Y. et al. (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. et al. (2013) B cells promote tumor progression via STAT3 regulated-				
	angiogenesis. <u>PLoS One. 8 (5): e64159.</u>				
Storage	Store at -20°C only.				
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Storage Guarantee	This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we				
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Guarantee	This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch				
Guarantee Health And Safety	This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. 12 months from date of despatch Material Safety Datasheet documentation #10162 available at:				
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,		
	DyLight®650, DyLight®680, DyLight®800,		
	FITC, HRP		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Rabbit Anti Mouse IgG (STAR13)	HRP		

MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA928EL)

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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-	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 'M365936:200529'

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