

Datasheet: MCA1940PET

Description:	MOUSE ANTI HUMAN CD19:RPE
Specificity:	CD19
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	LT19
lsotype:	lgG1
Quantity:	25 TESTS/0.25ml

Product Details

RRID	AB_1101066			
Applications	from testing within our	laboratories, peer-r refer to references	eviewed publications o indicated for further in	ons. This information is derived r personal communications from formation. For general protocol pcols.
		Yes	lo Not Determi	ned Suggested Dilution
	Flow Cytometry	•		Neat
	Where this antibody ha	as not been tested f	or use in a particular te	echnique this does not necessarily
		user titrates the ar	•	are given as a guide only. It is own system using appropriate
Target Species	Human			
Product Form	Purified IgG conjugate	d to R. Phycoerythr	in (RPE) - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm)		
	RPE 488nm laser	496	578	
Buffer Solution	Phosphate buffered sa	line		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albu	umin		
	5% Sucrose			
External Database Links	UniProt: P15391 Related	<u>l reagents</u>		
	Entrez Gene:			
	<u>930</u> CD19 <u>Relat</u>	ed reagents		
Specificity		-	-	man CD19 also known as T-cell 19 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 10ul of the suggested working dilution to label 10 ⁶ cells or cells or 100ul whole blood.
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>
	3. McIntosh, K. et al. (2006) The immunogenicity of human adipose-derived cells: temporal
	changes <i>in vitro</i> . <u>Stem Cells. 24: 1246-53.</u> 4. Sengstake, S. <i>et al.</i> (2006) CD21 and CD62L shedding are both inducible via P2X7Rs. <u>Int</u> <u>Immunol. 18 (7): 1171-8.</u>
	5. Villarroel Dorrego, M. et al. (2006) Transfection of CD40 in a human oral squamous cell
	carcinoma keratinocyte line upregulates immune potency and costimulatory molecules. <u>Br J</u> Dermatol. 154: 231-8.
	6. Franz, B. et al. (2011) Ex vivo characterization and isolation of rare memory B cells with antigen
	tetramers. <u>Blood. 118: 348-57.</u> 7. 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: 164-72.</u> 8. 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>
	9. 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.
	10. 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. Blood. 115: 1006-17.
	11. Kakko, T. <i>et al.</i> (2011) Inflammatory effects of blood leukocytes: association with vascular
	function in neuropeptide Y proline 7-genotyped type 2 diabetes patients. <u>Diab Vasc Dis Res. 8:</u> 221-8.
	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.
	Scand J Immunol. 82 (6): 523-31.
	14. Clark, L.E. <i>et al.</i> (2018) Vaccine-elicited receptor-binding site antibodies neutralize two New
	World hemorrhagic fever arenaviruses. Nat Commun. 9 (1): 1884.
Storage	Store at +4°C. DO NOT FREEZE.
	This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature
	the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.

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