

## Datasheet: MCA1940APC

<b>Description:</b>	MOUSE ANTI HUMAN CD19:APC
<b>Specificity:</b>	CD19
<b>Format:</b>	APC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LT19
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## Product Details

**RRID** AB\_566588

**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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	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 Max (nm)	Emission Max (nm)
	APC	650	661

**Preparation** Purified IgG from ascites prepared by precipitation and ion exchange chromatography

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide  
**Stabilisers** 1% Bovine Serum Albumin  
 5% Sucrose

**External Database Links**

**UniProt:**  
[P15391](#) [Related reagents](#)

**Entrez Gene:**

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<b>Specificity</b>	<p><b>Mouse anti Human CD19 antibody, clone LT19</b> 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 (<a href="#">de Rie et al. 1989</a>).</p> <p>CD19 is the broadest lineage specific marker for B cells and functions as a B-cell co-receptor in conjunction with CD21 (<a href="#">Bradbury et al. 1992</a>), CD9, CD81 and CD82 (<a href="#">Horváth et al. 1998</a>). CD19 is implicated in the down-regulation of B cell growth and proliferation (<a href="#">Pezzutto et al. 1987</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or cells or 100ul whole blood.
<b>References</b>	<ol style="list-style-type: none"><li>1. Hughes, G.J. <i>et al.</i> (2007) Virus immunocapture provides evidence of CD8 lymphocyte-derived HIV-1 <i>in vivo</i>. <a href="#">AIDS. 21: 1507-13.</a></li><li>2. 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. <a href="#">Diabetes. 58: 138-45.</a></li><li>3. McIntosh, K. <i>et al.</i> (2006) The immunogenicity of human adipose-derived cells: temporal changes <i>in vitro</i>. <a href="#">Stem Cells. 24: 1246-53.</a></li><li>4. Sengstake, S. <i>et al.</i> (2006) CD21 and CD62L shedding are both inducible via P2X7Rs. <a href="#">Int Immunol. 18 (7): 1171-8.</a></li><li>5. Villarreal 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. <a href="#">Br J Dermatol. 154: 231-8.</a></li><li>6. Franz, B. <i>et al.</i> (2011) <i>Ex vivo</i> characterization and isolation of rare memory B cells with antigen tetramers. <a href="#">Blood. 118: 348-57.</a></li><li>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. <a href="#">J Pharmacol Exp Ther. 347: 164-72.</a></li><li>8. Franz, B. <i>et al.</i> (2011) <i>Ex vivo</i> characterization and isolation of rare memory B cells with antigen tetramers. <a href="#">Blood. 118: 348-57.</a></li><li>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. <a href="#">Cancer Res. 73: 561-70.</a></li><li>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. <a href="#">Blood. 115: 1006-17.</a></li><li>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. <a href="#">Diab Vasc Dis Res. 8: 221-8.</a></li><li>12. Dorvignit, D. <i>et al.</i> (2012) Expression and biological characterization of an anti-CD20 biosimilar candidate antibody: a case study. <a href="#">MAbs. 4 (4): 488-96.</a></li><li>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. <a href="#">Scand J Immunol. 82 (6): 523-31.</a></li><li>14. Clark, L.E. <i>et al.</i> (2018) Vaccine-elicited receptor-binding site antibodies neutralize two New World hemorrhagic fever arenaviruses. <a href="#">Nat Commun. 9 (1): 1884.</a></li><li>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. <a href="#">Nat Commun. 10 (1): 893.</a></li></ol>
<b>Storage</b>	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

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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.

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<b>Guarantee</b>	12 months from date of reconstitution.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:APC \(MCA928APC\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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