CD19 monoclonal antibody, clone LT19 (PE)

Catalog # MAB4372 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CD19.
Immunogen	Native purified CD19 from Daudi human Burkitt lymphoma cell line.
Host	Mouse
Theoretical MW (kDa)	95
Reactivity	Human
Specificity	This antibody reacts with CD19 (B4), a 95 KDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed on B lymphocytes and follicular dendritic cells; it is lost on plasma cells.
Form	Liquid
Conjugation	PE
Isotype	IgG1
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

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- Immunoprecipitation

Gene Info — CD19

Entrez GeneID	930
Gene Name	CD19
Gene Alias	B4, MGC12802
Gene Description	CD19 molecule
Omim ID	107265
Gene Ontology	Hyperlink
Gene Summary	Lymphocytes proliferate and differentiate in response to various concentrations of different antige ns. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold fo r antigen receptor-dependent stimulation. [provided by RefSeq
Other Designations	B-lymphocyte antigen CD19|CD19 antigen

Publication Reference

- CD19 hyperexpression augments Sle1-induced humoral autoimmunity but not clinical nephritis.

  Shi X, Xie C, Chang S, Zhou XJ, Tedder T, Mohan C.

  Arthritis and Rheumatism 2007 Sep; 56(9):3057.

- CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features.

  Lin CW, Liu TY, Chen SU, Wang KT, Medeiros LJ, Hsu SM.

  Blood 2005 Jul; 106(10):3567.

- Strong cytosine-guanosine-independent immunostimulation in humans and other primates by synthetic oligodeoxynucleotides with PyNTTTTGT motifs.

  Elias F, Flo J, Lopez RA, Zorzopulos J, Montaner A, Rodriguez JM.

  Journal of Immunology 2003 Oct; 171(7):3697.

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Pathway

- B cell receptor signaling pathway
- Hematopoietic cell lineage
- Primary immunodeficiency

Disease

- Arthritis
- Crohn Disease
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Pemphigus
- Scleroderma

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