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Datasheet

CD19 monoclonal antibody, clone LT19 (Biotin)

Catalog Number: MAB4370

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD19.

Clone Name: LT19

Immunogen: Native purified CD19 from Daudi human Burkitt lymphoma cell line.

Host: Mouse

Theoretical MW (kDa): 95

Reactivity: Human

Applications: Flow Cyt, IP
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

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: Biotin

Isotype: IgG1

Recommend Usage: Flow Cytometry (1:200)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction: Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 930

Gene Symbol: CD19

Gene Alias: B4, MGC12802

Gene Summary: Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. 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 for antigen receptor-dependent stimulation. [provided by RefSeq]

References:

1. CD19 hyperexpression augments Sle1-induced humoral autoimmunity but not clinical nephritis. Shi X, Xie C, Chang S, Zhou XJ, Tedder T, Mohan C. Arthritis Rheum. 2007 Sep;56(9):3057-69.
2. 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 Nov 15;106(10):3567-74. Epub 2005 Jul 26.
3. 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. J Immunol. 2003 Oct 1;171(7):3697-704.