

## Datasheet

### CD19 monoclonal antibody, clone LT19 (FITC)

**Catalog Number:** MAB4371

**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:** FITC

**Isotype:** IgG1

**Recommend Usage:** Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10<sup>6</sup> 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.

**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.