

1B-663-C100

## Monoclonal Antibody to CD19 Biotin conjugated (0.1 mg)

|                             |   |
|-----------------------------|---|
| <b>Clone:</b>               | 4G7   |
| <b>Isotype:</b>             | Mouse IgG1  |
| <b>Specificity:</b>         | The mouse monoclonal antibody 4G7 recognizes CD19 (B4), a 95 kDa type I transmembrane glycoprotein of immunoglobulin superfamily, expressed on B lymphocytes and follicular dendritic cells; it is lost on plasma cells.<br>WS Code: 2 B43  |
| <b>Regulatory Status:</b>   | RUO   |
| <b>Immunogen:</b>           | Human CCL (chronic lymphocytic leukemia) cells  |
| <b>Species Reactivity:</b>  | Human   |
| <b>Preparation:</b>         | The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.  |
| <b>Concentration:</b>       | 1 mg/ml   |
| <b>Storage Buffer:</b>      | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4   |
| <b>Storage / Stability:</b> | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.  |
| <b>Usage:</b>               | Biotinylated antibody is designed for indirect immunofluorescence analysis by Flow Cytometry.   |
| <b>Expiration:</b>          | See vial label  |
| <b>Lot Number:</b>          | See vial label  |
| <b>Background:</b>          | CD19 is a transmembrane glycoprotein of Ig superfamily expressed by B cells from the time of heavy chain rearrangement until plasma cell differentiation. It forms a tetrameric complex with CD21 (complement receptor type 2), CD81 (TAPA-1) and Leu13. Together with BCR (B cell antigen receptor), this complex signals to decrease B cell threshold for activation by the antigen. Besides being signal-amplifying coreceptor for BCR, CD19 can also signal independently of BCR coligation and it turns out to be a central regulatory component upon which multiple signaling pathways converge. Mutation of the CD19 gene results in hypogammaglobulinemia, whereas CD19 overexpression causes B cell hyperactivity. |

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

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- \*And many other.

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