

## 30-1789: Anti-CD19 Monoclonal Antibody (Clone:4G7 )-APC Conjugated

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal                                     |
| <b>Clone Name :</b>            | 4G7  |
| <b>Application :</b>           | FACS   |
| <b>Reactivity :</b>            | Human  |
| <b>Conjugate :</b>             | APC  |
| <b>Gene :</b>                  | CD19   |
| <b>Gene ID :</b>               | 930  |
| <b>Uniprot ID :</b>            | P15391   |
| <b>Alternative Name :</b>      | CD19, B4, Leu-12, CVID3                        |
| <b>Isotype :</b>               | Mouse IgG1                                     |
| <b>Immunogen Information :</b> | Human CCL (chronic lymphocytic leukemia) cells |

### Description

Specificity: The mouse monoclonal antibody 4G7 recognizes an extracellular epitope of human CD19.<Br>

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.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 100 tests   |
| <b>Purification :</b>      | Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |
| <b>Content :</b>           | Formulation : Stabilizing phosphate-buffered saline (PBS), pH 7.4, 15 mM sodium azide   |
| <b>Storage condition :</b> | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.   |

### Application Note

**Flow cytometry:** The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

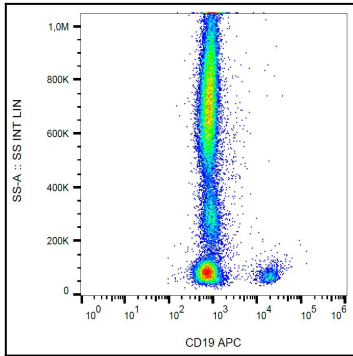


Figure 1: Surface staining of human peripheral blood leukocytes with anti-human CD19 (4G7) APC.