

## anti-human CD19 APC-conjugated

The antibody LT19 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.

**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.

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| <b>Clone:</b>          | LT19   |
| <b>Isotype:</b>        | Mouse IgG1   |
| <b>Physical state:</b> | Liquid for direct use  |
| <b>Form:</b>           | purified antibody conjugated with cross-linked Allophycocyanin (APC)                                   |
| <b>Buffer:</b>         | PBS containing 1% BSA and 0.1% sodium azide (pH 7.4)   |
| <b>Storage:</b>        | Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.                                       |
| <b>Application:</b>    | Flow Cytometry   |
| <b>Reference:</b>      | Lin CW,Liu TY,Chen SU,Wang KT,Medeiros LJ,Hsu SM: Blood.2005 Nov 15;106(10):3567-74. Epub 2005 Jul 26. |
| <b>Quantity:</b>       | 1.0 ml   |
| <b>Order N°:</b>       | H12153A  |

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

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