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30-2079: Anti-CD19 Monoclonal Antibody (Clone:4G7)-FITC Conjugated

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

Description

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

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 treshold 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

Amount :	100 tests
Purification :	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation: Stabilizing phosphate-buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	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 20 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

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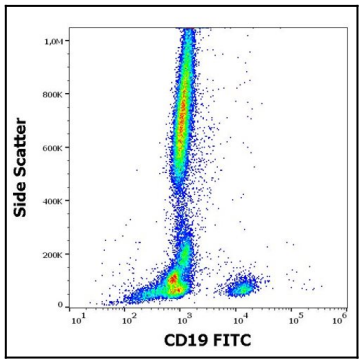

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD19 (4G7) FITC antibody (20 Î¼l reagent / 100 Î¼l of peripheral whole blood).

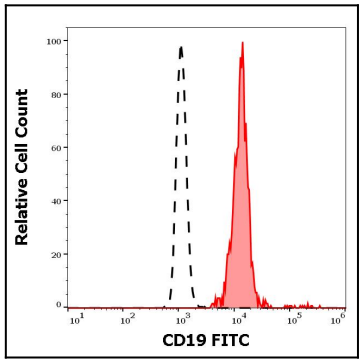

Figure 2: Separation of human CD19 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD19 (4G7) FITC antibody (20 Î¼l reagent / 100 Î¼l of peripheral whole blood).