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30-1906: Anti-CD19 Monoclonal Antibody (Clone:4G7)-Biotin Conjugated

Clonality :	Monoclonal
Clone Name :	4G7
Application :	FACS
Reactivity :	Human
Conjugate :	Biotin
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 :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1 µg/ml.

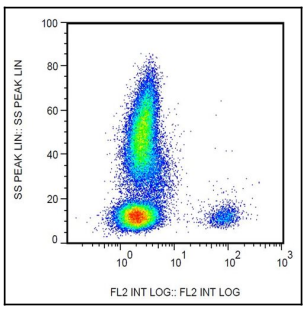

Figure 1: Flow cytometry analysis (surface staining) of human peripheral blood leukocytes with anti-human CD19 (4G7) biotin / streptavidin-PE.