

30-1469: Anti-CD19 Monoclonal Antibody (Clone:4G7)

Clonality :	Monoclonal
Clone Name :	4G7
Application :	FACS
Reactivity :	Human
Gene :	CD19
Gene ID :	930
Uniprot ID :	P15391
Format :	Purified
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 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

Amount :	0.1 mg
Purification :	Purified by protein-A affinity 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

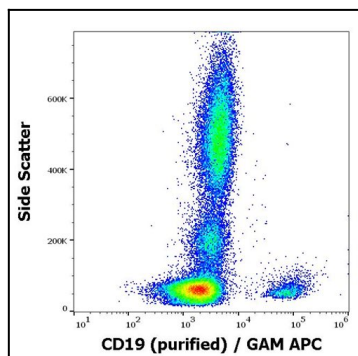


Figure 1: Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD19 (4G7) purified antibody (concentration in sample 3 1 1/2 μg/ml) GAM APC.

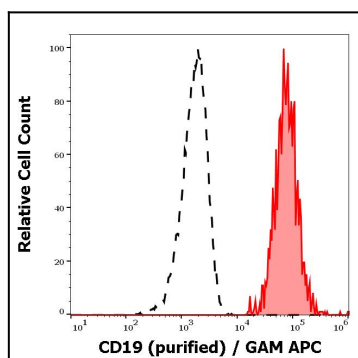


Figure 2: Separation of human CD19 positive lymphocytes (red-filled) from CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD19 (4G7) purified antibody (concentration in sample 3 1 1/2 μg/ml) GAM APC.