PA007745.h1Fs-b: Biotinylated Recombinant Anti-human CD19 Monoclonal Antibody (Clone: 4G7), Human IgG1 Fc Silent Kappa

Catalog No.: PA007745.h1Fs-b | **Product Name:** Biotinylated Recombinant Anti-human CD19 Monoclonal Antibody, Human IgG1 Fc Silent Kappa (Clone: 4G7)

Recombinant anti-human CD19 monoclonal antibody (Clone 4G7, Biotinylated), engineered with a Human IgG1 Fc-Silent domain to minimize non-specific Fc receptor binding during cell surface analysis. Variable regions are derived from the classic mouse anti-human CD19 clone 4G7 and recombinantly expressed in mammalian cells.

PRODUCT SPECIFICATIONS

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Product Name	Biotinylated Recombinant Anti-human CD19 Monoclonal Antibody (Clone: 4G7), Human IgG1 Fc Silent Kappa
Supplier Name	Syd Labs, Inc.
Brand Name	Syd Labs
Clone	4G7
Isotype	Human IgG1 Fc Silent Kappa.
Source/Host	The site-directed biotinylated recombinant anti-human CD19 monoclonal antibody (clone: 4G7) was produced in mammalian cells.
Specificity/Sensitivity	The site-directed biotinylated recombinant 4G7 antibody specifically binds to the human CD19 protein.
Applications	Flow cytometry (FC) with various dye conjugation through streptavidin; conjugation to streptavidin agarose beads or streptavidin magnetic beads.
Form Of Antibody	0.2 uM filtered solution, pH 7.4, no stabilizers or preservatives.
Conjugate	Biotin-conjugated.
Purity	>95% by SDS-PAGE under reducing conditions.
Shipping & Storage	The 4G7 antibody is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.

BACKGROUND & APPLICATION INFORMATION

Recombinant human IgG1 monoclonal antibody with site-directed biotinylation through the Avi tag at the C-terminus of the antibody heavy chain.

The 4G7 antibody binds to the human CD19 protein, a transmembrane protein expressed in all B lineage cells including human plasma cells. CD19 plays two major roles in human B cells: it acts as an adaptor protein to recruit cytoplasmic signaling proteins to the membrane, and works within the CD19/CD21 complex to decrease the threshold for B cell receptor signaling pathways. CD19 is a biomarker for B lymphocyte development, lymphoma diagnosis and can be utilized as a target for leukemia immunotherapies.