

APC anti-human CD19 Antibody

Catalog# / Size	392503 / 25 tests 392504 / 100 tests
Clone	4G7
Regulatory Status	RUO
Workshop	HCDM listed
Other Names	B4, CVID3
Isotype	Mouse IgG1, κ
Description	CD19 is a 95 kD type I transmembrane glycoprotein also known as B4. It is a member of the immunoglobulin superfamily expressed on B-cells (from pro-B to blastoid B cells, absent on plasma cells) and follicular dendritic cells. CD19 is involved in B cell development, activation, and differentiation. CD19 forms a complex with CD21 (CR2) and CD81 (TAPA-1), and functions as a BCR co-receptor.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human Chronic Lymphocytic Leukemia (CLL) cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone 4G7 partially blocks anti-human CD19 clones HIB19 and SJ25C1 staining based on in-house testing
Application References (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> 1. Cabezudo E, <i>et al.</i> 1999. <i>Haematologica</i>. 84:413-8 2. Van Zelm MC <i>et al.</i> 2010. <i>J Clin Invest</i>. 120:1265-74
Product Citations	<ol style="list-style-type: none"> 1. Morton JJ, <i>et al.</i> 2018. <i>Mol Carcinog</i>. 57:1651. PubMed 2. Lu Y, <i>et al.</i> 2020. <i>Cell</i>. 180(6):1081-1097. PubMed 3. Huang B, <i>et al.</i> 2020. <i>Cell</i>. 179(5):1160-1176.e24.. PubMed
RRID	AB_2728415 (BioLegend Cat. No. 392503) AB_2728416 (BioLegend Cat. No. 392504)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 95 kD
Distribution	Normal and malignant B lymphocytes
Function	B cell activation and differentiation
Ligand/Receptor	Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR coreceptor
Cell Type	B cells, Lymphocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none">1. Tedder T, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:437.2. Bradbury L, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2915.
Gene ID	930

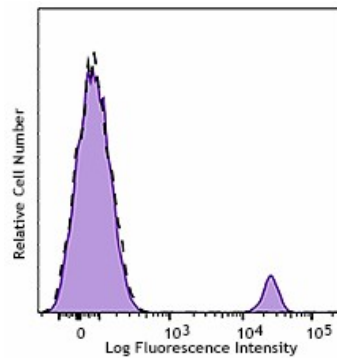
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD19, APC anti-human CD19, PE anti-human CD19, FITC anti-human CD19, PerCP anti-human CD19

Product Data



Human peripheral blood lymphocytes were stained with CD19 (clone 4G7) (filled histogram) APC or mouse IgG1, κ isotype control (open histogram) APC.

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