

PE anti-human CD19 Antibody

Catalog# / Size	363003 / 25 tests 363004 / 100 tests
Clone	SJ25C1
Regulatory Status	RUO
Other Names	CD19 Molecule, CD19 Antigen, Differentiation Antigen CD19, B-Lymphocytes Surface Antigen B4, T-cell Surface Antigen Leu-12, CVID3, B4, B-lymphocyte Antigen CD19
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	NALM1 + NALM16 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 PE 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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Clone SJ25C1 partially blocks anti-human CD19 clones HIB19 and 4G7 staining based on in-house testing
Product Citations	1. Ghraichy M, <i>et al.</i> 2021. <i>Elife</i> . 10:. PubMed 2. Rodrigues E, <i>et al.</i> 2020. <i>Nat Commun</i> . 3.99375. PubMed
RRID	AB_2564125 (BioLegend Cat. No. 363003) AB_2564126 (BioLegend Cat. No. 363004)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 95 kD.
Distribution	B lineage (except plasma cells), follicular dendritic cells.

Function	B cell activation and differentiation.
Interaction	Forms a complex with CD21, CD81 and CD225 in the membrane of mature B cells and interacts with VAV and LYN. It also interacts with GRAB2 and SOS when phosphorylated on Tyr-348 and/or Tyr-378 and with PLCG2 when phosphorylated on Tyr-409.
Ligand/Receptor	Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR co-receptor.
Cell Type	B cells, Dendritic cells
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	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

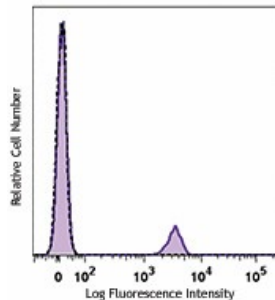
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Brilliant Violet 421™ anti-human CD19, Purified anti-human CD19, PE anti-human CD19, APC anti-human CD19, FITC anti-human CD19, APC/Cyanine7 anti-human CD19, PE/Cyanine7 anti-human CD19, PerCP anti-human CD19, PerCP/Cyanine5.5 anti-human CD19, Brilliant Violet 510™ anti-human CD19, Brilliant Violet 711™ anti-human CD19, Brilliant Violet 605™ anti-human CD19, Brilliant Violet 650™ anti-human CD19, Brilliant Violet 785™ anti-human CD19, APC/Fire™ 750 anti-human CD19, PE/Dazzle™ 594 anti-human CD19, Alexa Fluor® 700 anti-human CD19, Pacific Blue™ anti-human CD19, Alexa Fluor® 488 anti-human CD19, Alexa Fluor® 647 anti-human CD19, PE/Cyanine5 anti-human CD19

Product Data



Human peripheral blood lymphocytes were stained with CD19 (clone SJ25C1) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587