

PE/Cyanine7 anti-human CD19 Antibody

Catalog# / Size	363011 / 25 tests 363012 / 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/Cyanine7 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
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Product Citations	<ol style="list-style-type: none">1. Aliu B, <i>et al.</i> 2020. Journal of Neurochemistry. 154(5):486-501. PubMed2. Sagebiel AF, <i>et al.</i> 2019. Nat Commun. 10:975. PubMed3. Mesa-Nuñez C, <i>et al.</i> 2020. Stem Cell Res Ther. 11:164. PubMed4. Li D, <i>et al.</i> 2020. Immunohorizons. 0.661805556. PubMed5. Mesa-Nuñez C, <i>et al.</i> 2022. Mol Ther Methods Clin Dev. 26:459. PubMed
RRID	AB_2564202 (BioLegend Cat. No. 363011) AB_2564203 (BioLegend Cat. No. 363012)

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

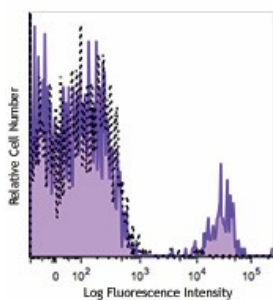
Related Protocols

[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/Cyanine7 (filled histogram) or mouse IgG1, κ PE/Cyanine7 isotype control (open histogram).

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