

Purified anti-human CD19 Antibody

Catalog# / Size	363001 / 25 µg 363002 / 100 µg
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.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F - Verified
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 ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. For immunohistochemical staining on frozen tissue sections, the suggested use of this reagent is 5.0 - 10 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	Clone SJ25C1 partially blocks anti-human CD19 clones HIB19 and 4G7 staining based on in-house testing
Product Citations	1. Zhao J, <i>et al.</i> 2017. <i>Sci Immunol.</i> 2:eaan5400. PubMed 2. Stensland ZC, <i>et al.</i> 2022. <i>iScience.</i> 25:103626. PubMed
RRID	AB_2563988 (BioLegend Cat. No. 363001) AB_2563989 (BioLegend Cat. No. 363002)

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

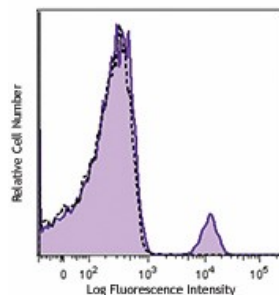
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

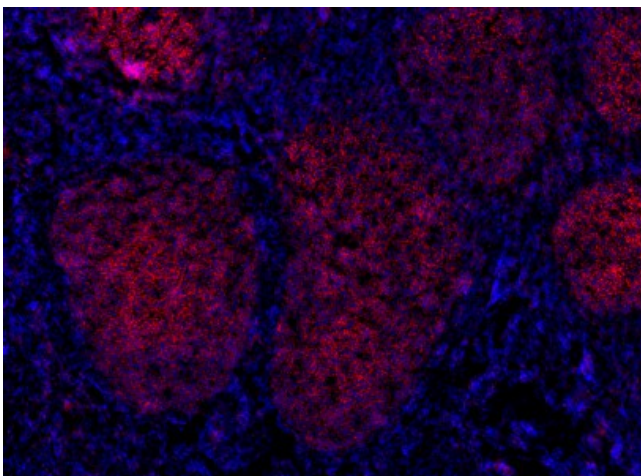
Other Formats

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 purified CD19 (clone SJ25C1, closed histogram) or mouse IgG1, κ isotype control (open histogram), followed by anti-mouse IgG PE.



Frozen human tonsil section was fixed with 4% paraformaldehyde (PFA) for ten minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 10 µg/ml of purified anti-human CD19 (clone SJ25C1) overnight at 4°C, followed by 2.5 µg/ml of Alexa Fluor® 594 anti-mouse IgG (clone Poly4053) (red) for two hours at room temperature. Nuclei were counterstained with DAPI (blue). The image was captured by 10X objective.

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