

PE anti-human CD19 Antibody

Catalog# / Size	392505 / 25 tests 392506 / 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 PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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 4G7 partially blocks anti-human CD19 clones HIB19 and SJ25C1 staining based on in-house testing
Application References	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
(PubMed link indicates BioLegend citation)	

Product Citations

1. Fatehi Hassanabad A, *et al.* 2022. JTCVS Open. 12:118. [PubMed](#)
2. Griffith AA, *et al.* 2022. J Proteome Res. 21:395. [PubMed](#)
3. Morris V, *et al.* 2022. Cell Rep. 39:110752. [PubMed](#)
4. Lu Y, *et al.* 2020. Cell. 180(6):1081-1097. [PubMed](#)
5. Qi S, *et al.* 2021. Biol Sex Differ. 12:66. [PubMed](#)
6. Fang F, *et al.* 2022. JCI Insight. 7:. [PubMed](#)
7. Li H, *et al.* 2020. Mol Ther Methods Clin Dev. 1.436111111. [PubMed](#)
8. Manzano-Muñoz A, *et al.* 2021. Front Cell Dev Biol. 9:695225. [PubMed](#)
9. Rodriguez A, *et al.* 2021. Cell Stem Cell. 28:33. [PubMed](#)
10. Lu Y, *et al.* 2020. STAR Protoc. 1:100040. [PubMed](#)

RRID

AB_2750096 (BioLegend Cat. No. 392505)
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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

1. Tedder T, *et al.* 1994. *Immunol. Today* 15:437.
2. Bradbury L, *et al.* 1993. *J. Immunol.* 151:2915.

Gene ID

[930](#)

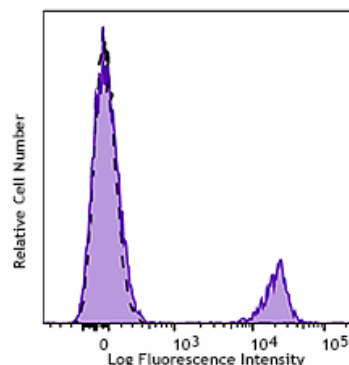
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Product Data



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

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