

Biotin anti-human CD19 Antibody

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|--------------------------|---|
| Catalog# / Size | 302203 / 25 µg 302204 / 100 µg |
| Clone | HIB19 |
| Regulatory Status | RUO |
| Workshop | V CD19.11 |
| Other Names | B4 |
| 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

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|-------------------------------|--|
| Verified Reactivity | Human |
| Reported Reactivity | Chimpanzee |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Preparation | The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. |
| Concentration | 0.5 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. 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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application. |
| Application Notes | <p>Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections⁸ and blocking of B cell proliferation. Clone HIB19 is not recommended for formalin-fixed paraffin-embedded sections. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 302267 & 302268).</p> <p>Clone HIB19 partially blocks anti-human CD19 clones 4G7 and SJ25C1 staining based on in-house testing</p> |
| Application References | <ol style="list-style-type: none">Schlossman S, <i>et al.</i> 1995. Leucocyte Typing V. Oxford University Press. New York.Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York.Bradbury L, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2915.Joseph A, <i>et al.</i> 2010. <i>J. Virol.</i> 84:6645. PubMedWang X, <i>et al.</i> 2010. <i>Haematologica.</i> 95:884. (FC) PubMedWalker JD, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:1548. (Block) PubMedYoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC)Hansen A, <i>et al.</i> 2002. <i>Arthritis Rheum.</i> 46:2160. (IHC)Stoekius M, <i>et al.</i> 2017. <i>Nat. Methods.</i> 14:865. (PG)Peterson VM, <i>et al.</i> 2017. <i>Nat. Biotechnol.</i> 35:936. (PG) |

Product Citations

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2. Riether C, *et al.* 2021. *Cell Reports.* 34(4):108663. [PubMed](#)
3. Kerr SC, *et al.* 2020. *Clin Exp Allergy.* 50:904. [PubMed](#)
4. Hinterbrandner M, *et al.* 2021. *JCI Insight.* 6:e151797. [PubMed](#)
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8. Yankova E, *et al.* 2021. *Nature.* 593:597. [PubMed](#)
9. Xhangolli I, *et al.* 2019. *Genomics Proteomics Bioinformatics.* 17:129. [PubMed](#)
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11. Liu Y, *et al.* 2022. *Front Oncol.* 12:1037934. [PubMed](#)
12. Ye CJ, *et al.* 2018. *Genome Res.* 28:1812. [PubMed](#)
13. Hirota K *et al.* 2018. *Immunity.* 48(6):1220-1232. [PubMed](#)
14. Zhang B, *et al.* 2021. *Nature.* 599:471. [PubMed](#)
15. Heyde A, *et al.* 2021. *Cell.* 184(5):1348-1361.e22. [PubMed](#)

RRID

AB_314233 (BioLegend Cat. No. 302203)
AB_314234 (BioLegend Cat. No. 302204)

Antigen Details

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|---------------------------|---|
| Structure | Ig superfamily, type I transmembrane glycoprotein, 95 kD |
| Distribution | B lineage (except plasma cells), follicular dendritic cells |
| Function | B cell activation and differentiation |
| Ligand/Receptor | Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR coreceptor |
| 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 |

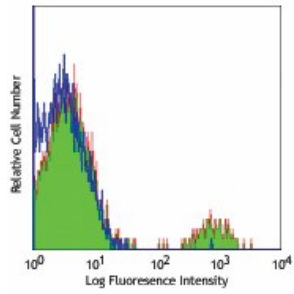
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD19, Biotin anti-human CD19, FITC anti-human CD19, PE anti-human CD19, PE/Cyanine5 anti-human CD19, Purified anti-human CD19, APC/Cyanine7 anti-human CD19, PE/Cyanine7 anti-human CD19, Alexa Fluor® 488 anti-human CD19, Alexa Fluor® 647 anti-human CD19, Pacific Blue™ anti-human CD19, Alexa Fluor® 700 anti-human CD19, PerCP anti-human CD19, PerCP/Cyanine5.5 anti-human CD19, Brilliant Violet 421™ anti-human CD19, Brilliant Violet 570™ anti-human CD19, Brilliant Violet 650™ anti-human CD19, Brilliant Violet 785™ anti-human CD19, Brilliant Violet 510™ anti-human CD19, Brilliant Violet 605™ anti-human CD19, Brilliant Violet 711™ anti-human CD19, Purified anti-human CD19 (Maxpar® Ready), Alexa Fluor® 594 anti-human CD19, PE/Dazzle™ 594 anti-human CD19, APC/Fire™ 750 anti-human CD19, TotalSeq™-A0050 anti-human CD19, Brilliant Violet 750™ anti-human CD19, TotalSeq™-B0050 anti-human CD19, TotalSeq™-C0050 anti-human CD19, Spark NIR™ 685 anti-human CD19, Ultra-LEAF™ Purified anti-human CD19, APC/Fire™ 810 anti-human CD19, PE/Fire™ 640 anti-human CD19, PE/Fire™ 700 anti-human CD19, TotalSeq™-D0050 anti-human CD19, Spark YG™ 593 anti-human CD19, GMP Pacific Blue™ anti-human CD19, Spark Violet™ 423 anti-human CD19, GMP PE anti-human CD19, GMP APC anti-human CD19, KIRAVIA Blue 520™ anti-human CD19, GMP PerCP/Cyanine5.5 anti-human CD19, GMP PE/Cyanine7 anti-human CD19, Spark Violet™ 500 anti-human CD19

Product Data



Human peripheral blood lymphocytes stained with biotinylated H1B19, followed by Sav-PE (red line, green fill). Blue line-isotype control (Biotin Mouse IgG1+Sav-PE).

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