# PerCP/Cyanine5.5 anti-human CD19 Antibody

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| **Catalog# / Size** | 302229 / 25 tests<br>302230 / 100 tests |
| **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 and BSA (origin USA) |
| **Preparation** | The antibody was purified by affinity chromatography, and conjugated with PerCP/Cyanine5.5 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 µl per million cells in 100 µl volume or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm. |
| **Application Notes** | Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections[8] 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).<br><br>Clone HIB19 partially blocks anti-human CD19 clones 4G7 and SJ25C1 staining based on in-house testing |
| **Additional Product Notes** | BioLegend is in the process of converting the name PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions. |
| **Application References**<br><br>**(PubMed link indicates BioLegend citation)** | 1. Schlossman S, *et al.* 1995. Leucocyte Typing V. Oxford University Press. New York.<br>2. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.<br>3. Bradbury L, *et al.* 1993. *J. Immunol.* 151:2915. |

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**Product Citations**

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**RRID**

AB_2275547 (BioLegend Cat. No. 302229)
AB_2073119 (BioLegend Cat. No. 302230)

## 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, *et al.* 1994. *Immunol. Today* 15:437.<br>2. Bradbury L, *et al.* 1993. *J. Immunol.* 151:2915. |

**Gene ID** 930

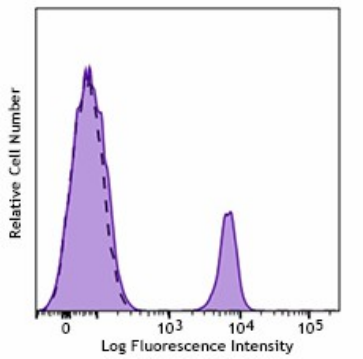
## Related Protocols

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 were stained with CD19 (clone HIB19) PerCP/Cyanine5.5 (filled histogram), or mouse IgG1, ? PerCP/Cyanine5.5 isotype control (open histogram).

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