

## PerCP anti-human CD19 Antibody

<b>Catalog# / Size</b>	302227 / 25 tests 302228 / 100 tests
<b>Clone</b>	H1B19
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V CD19.11
<b>Other Names</b>	B4
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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

<b>Verified Reactivity</b>	Human, Cynomolgus, Rhesus
<b>Reported Reactivity</b>	Chimpanzee
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with PerCP under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.  * PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections <sup>8</sup> and blocking of B cell proliferation. Clone H1B19 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).  Clone H1B19 partially blocks anti-human CD19 clones 4G7 and SJ25C1 staining based on in-house testing
<b>Additional Product Notes</b>	View more applications data for this product in our <a href="#">Scientific Poster Library</a> .
<b>Application References</b>	1. Schlossman S, <i>et al.</i> 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York. 3. Bradbury L, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2915.
<b>(PubMed link indicates BioLegend citation)</b>	

4. Joseph A, *et al.* 2010. *J. Virol.* 84:6645. [PubMed](#)
5. Wang X, *et al.* 2010. *Haematologica.* 95:884. (FC) [PubMed](#)
6. Walker JD, *et al.* 2009. *J. Immunol.* 182:1548. (Block) [PubMed](#)
7. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
8. Hansen A, *et al.* 2002. *Arthritis Rheum.* 46:2160. (IHC)
9. Stoeckius M, *et al.* 2017. *Nat. Methods.* 14:865. (PG)
10. Peterson VM, *et al.* 2017. *Nat. Biotechnol.* 35:936. (PG)

### Product Citations

1. Meraviglia S, *et al.* 2017. *Oncoimmunology.* 6:e1347742. [PubMed](#)
2. Tognarelli S, *et al.* 2018. *Front Immunol.* 9:2743. [PubMed](#)
3. Ahmed R *et al.* 2019. *Cell.* 177(6):1583-1599. [PubMed](#)
4. Salazar-Camarena DC, *et al.* 2020. *Sci Rep.* 10:6236. [PubMed](#)
5. Zhai Y, *et al.* 2018. *Autophagy.* 1.714583333. [PubMed](#)
6. Mahmud FJ, *et al.* 2020. *J Neuroinflammation.* 0.897916667. [PubMed](#)
7. Zhu Y, *et al.* 2012. *PLoS One.* 7:e44131. [PubMed](#)
8. Karlsson H, *et al.* 2015. *PLoS One.* 10: 0144787. [PubMed](#)
9. Keck S, *et al.* 2021. *Cellular and Molecular Gastroenterology and Hepatology.* 12(2):507-545. [PubMed](#)
10. Hearnden R, *et al.* 2021. *STAR Protocols.* 2(2):100422. [PubMed](#)

### RRID

AB\_893276 (BioLegend Cat. No. 302227)  
 AB\_893272 (BioLegend Cat. No. 302228)

## Antigen Details

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<b>Structure</b>	Ig superfamily, type I transmembrane glycoprotein, 95 kD
<b>Distribution</b>	B lineage (except plasma cells), follicular dendritic cells
<b>Function</b>	B cell activation and differentiation
<b>Ligand/Receptor</b>	Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR coreceptor
<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">930</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

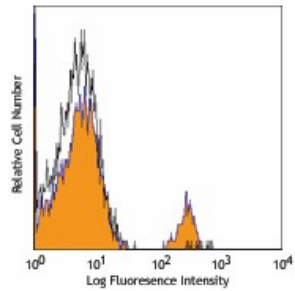
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APC anti-human CD19, Biotin anti-human CD19, FITC anti-human CD19, PE anti-human CD19, PE/Cyanine5 anti-human CD19, Purified anti-human CD19, APC/Cyanine7 anti-human CD19, PE/Cyanine7 anti-human CD19, Alexa Fluor® 488 anti-human CD19, Alexa Fluor® 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

## Product Data

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Human peripheral blood lymphocytes  
stained with HIB19 PerCP



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