

Purified anti-human CD19 (Maxpar[®] Ready) Antibody

Catalog# / Size	302247 / 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

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 EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested CyTOF[®], PG - Verified
Recommended Usage	This product is suitable for use with the Maxpar[®] Metal Labeling Kits . For metal labeling using Maxpar [®] Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar [®] Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar [®] User Guide when conjugating Maxpar [®] Ready antibodies.
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections ⁹ 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). Clone HIB19 partially blocks anti-human CD19 clones 4G7 and SJ25C1 staining based on in-house testing
Additional Product Notes	Maxpar [®] is a registered trademark of Standard BioTools Inc.
Application References	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. 4. Joseph A, <i>et al.</i> 2010. <i>J. Virol.</i> 84:6645. PubMed 5. Wang X, <i>et al.</i> 2010. <i>Haematologica.</i> 95:884. (FC) PubMed 6. Walker JD, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:1548. (Block) PubMed 7. Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) 8. Hansen A, <i>et al.</i> 2002. <i>Arthritis Rheum.</i> 46:2160. (IHC) 9. Stoeckius M, <i>et al.</i> 2017. <i>Nat. Methods.</i> 14:865. (PG)
(PubMed link indicates BioLegend citation)	

10. Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG)

Product Citations

1. Stras SF, et al. 2020. Developmental Cell. 51(3):357-373.e5.. [PubMed](#)
2. Neidleman J, et al. 2020. Elife. 9:00. [PubMed](#)
3. Neidleman J, et al. 2020. Cell Rep Med. 100081:1. [PubMed](#)
4. Alcántara-Hernández M, et al. 2021. Nat Protoc. 16:4855. [PubMed](#)
5. Tian Y, et al. 2019. Cell Rep. 29:4482. [PubMed](#)
6. Gañán-Gómez I, et al. 2022. Nat Med. . [PubMed](#)
7. Syrimi E, et al. 2021. iScience. 24:103215. [PubMed](#)
8. Jordan S, et al. 2020. Cell. 178(5):1102-1114.e17.. [PubMed](#)
9. Neidleman J, et al. 2021. Elife. 10:. [PubMed](#)
10. Neidleman J, et al. 2021. Cell Rep. 36:109414. [PubMed](#)
11. NULL, et al. 2022. Cell. 185:916. [PubMed](#)

RRID

AB_2562815 (BioLegend Cat. No. 302247)

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
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. <i>Immunol. Today</i> 15:437. 2. Bradbury L, et al. 1993. <i>J. Immunol.</i> 151:2915.
Gene ID	930

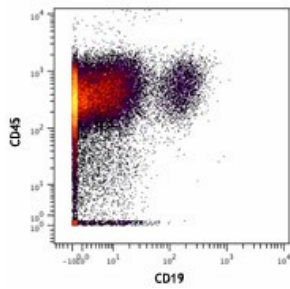
Related Protocols

[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 PBMCs stained with ¹⁵⁴Sm-anti-CD45 (HI30) and ¹⁴²Nd-anti-CD19 (HIB19). Data provided by DVS Sciences.

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