

Spark PLUS V450™ anti-human CD19 Antibody

Catalog# / Size	390415 / 25 tests 390416 / 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

Verified Reactivity	Human
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 Spark PLUS V450™ 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. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS V450™ has a maximum excitation of 405 nm and a maximum emission of 452 nm.
Excitation Laser	Violet Laser (405 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/ μ g, Azide-Free, 0.2 μ m 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

Application References

(PubMed link indicates
BioLegend citation)

1. Schlossman S, *et al.* 1995. Leucocyte Typing V. Oxford University Press. New York.
2. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
3. Bradbury L, *et al.* 1993. *J. Immunol.* 151:2915.
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)

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, <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

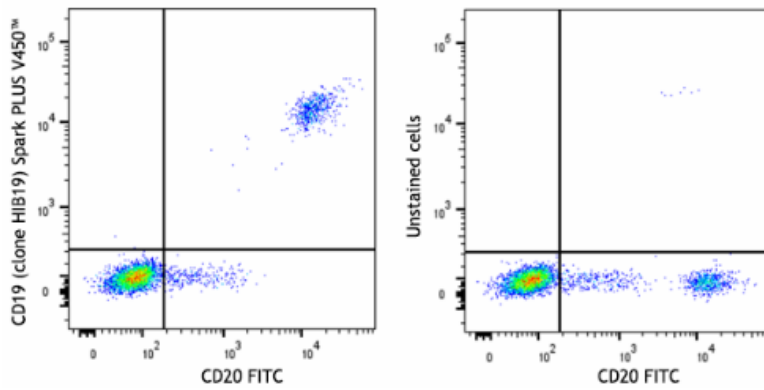
Related Protocols

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

Other Formats

TotalSeq™-D0050 anti-human CD19, GMP Pacific Blue™ anti-human CD19, KIRAVIA Blue 520™ anti-human CD19, GMP PE/Cyanine7 anti-human CD19, GMP PerCP/Cyanine5.5 anti-human CD19, Spark Violet™ 423 anti-human CD19, PE/Fire™ 810 anti-human CD19, Spark YG™ 593 anti-human CD19, PE/Cyanine5 anti-human CD19, PerCP/Fire™ 806 anti-human CD19, APC/Fire™ 750 anti-human CD19, Alexa Fluor® 660 anti-human CD19, Spark PLUS UV395™ anti-human CD19, GMP PE anti-human CD19, GMP APC anti-human CD19, PE anti-human CD19, PE/Cyanine7 anti-human CD19, Brilliant Violet 605™ anti-human CD19, Brilliant Violet 711™ anti-human CD19, FITC anti-human CD19, Purified anti-human CD19, Spark Violet™ 500 anti-human CD19, Alexa Fluor® 594 anti-human CD19, Brilliant Violet 650™ anti-human CD19, Purified anti-human CD19 (Maxpar® Ready), PE/Fire™ 744 anti-human CD19, Spark UV™ 387 anti-human CD19, GMP APC/Fire™ 750 anti-human CD19, GMP PE/Cyanine5 anti-human CD19, StarBright UltraViolet 575 anti-human CD19, PerCP/Fire™ 780 anti-human CD19, Spark Red™ 718 anti-human CD19, Alexa Fluor® 488 anti-human CD19, Alexa Fluor® 647 anti-human CD19, Spark PLUS B574™ anti-human CD19 Antibody, Spark PLUS B550™ anti-human CD19, GMP FITC anti-human CD19, Spark PLUS B488™ anti-human CD19, Pacific Blue™ anti-human CD19, Alexa Fluor® 700 anti-human CD19, PerCP anti-human CD19, TotalSeq™-B0050 anti-human CD19, APC anti-human CD19, PerCP/Cyanine5.5 anti-human CD19, Spark NIR™ 685 anti-human CD19, Ultra-LEAF™ Purified anti-human CD19, APC/Cyanine7 anti-human CD19, APC/Fire™ 810 anti-human CD19, PE/Fire™ 700 anti-human CD19, Brilliant Violet 785™ anti-human CD19, Brilliant Violet 510™ anti-human CD19, PE/Dazzle™ 594 anti-human CD19, StarBright UltraViolet 795 anti-human CD19, TotalSeq™-A0050 anti-human CD19, TotalSeq™-C0050 anti-human CD19, PE/Fire™ 640 anti-human CD19, Brilliant Violet 421™ anti-human CD19, Biotin anti-human CD19, Brilliant Violet 570™ anti-human CD19, Spark PLUS V475™ anti-human CD19 Antibody, Spark PLUS V450™ anti-human CD19, Brilliant Violet 750™ anti-human CD19

Product Data



Human peripheral blood cells were stained with anti-human CD20 (clone 2H7) FITC and anti-human CD19 (clone HIB19) Spark PLUS V450™ (left) or stained with anti-human CD20 (clone 2H7) FITC only (right). Data shown are gated on the lymphocyte population.

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