Spark PLUS B550™ anti-human CD19 Antibody

Catalog# / Size	390409 / 25 tests 390410 / 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
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 Spark PLUS B550™ 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 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). 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)

RRID

AB_3720552 (BioLegend Cat. No. 390409)
AB_3720552 (BioLegend Cat. No. 390410)

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. *Immunol. Today* 15:437. 2. Bradbury L, *et al.* 1993. *J. Immunol.* 151:2915.
Gene ID	930

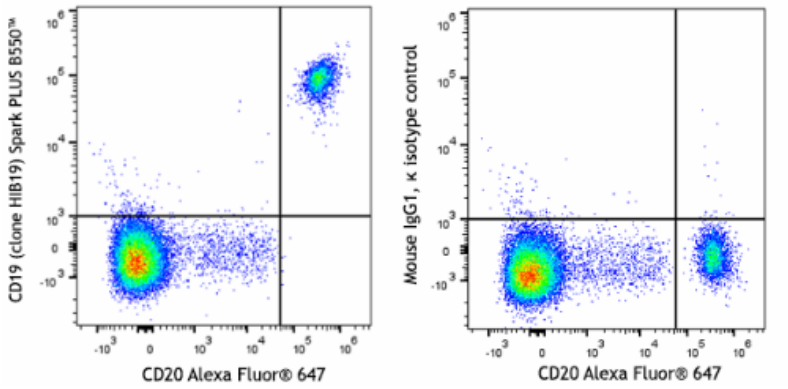
Related Protocols

- 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 lymphocytes were stained with anti-human CD20 (clone 2H7) Alexa Fluor® 647 and anti-human CD19 (clone HIB19) Spark PLUS B550™ (left) or mouse IgG1, κ Spark PLUS B550™ isotype control (right).

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