

## Brilliant Violet 570™ anti-human CD19 Antibody

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| <b>Catalog# / Size</b>   | 363055 / 25 tests<br>363056 / 100 tests                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clone</b>             | SJ25C1                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Regulatory Status</b> | RUO                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Other Names</b>       | CD19 Molecule, CD19 Antigen, Differentiation Antigen CD19, B-Lymphocytes Surface Antigen B4, T-cell Surface Antigen Leu-12, CVID3, B4, B-lymphocyte Antigen CD19                                                                                                                                                                                                                                        |
| <b>Isotype</b>           | Mouse IgG1, $\kappa$                                                                                                                                                                                                                                                                                                                                                                                    |
| <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

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| <b>Verified Reactivity</b>    | Human                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Antibody Type</b>          | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host Species</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>              | NALM1 + NALM16 cells                                                                                                                                                                                                                                                                                                                                                                                      |
| <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 Brilliant Violet 570™ under optimal conditions.                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>          | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool).                                                                                                                                                                                                                                               |
| <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 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |

Brilliant Violet 570™ excites at 405 nm and emits at 570 nm. The bandpass filter 585/42 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 570™ is a trademark of Sirigen Group Ltd.

[Learn more about Brilliant Violet™.](#)

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|--------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Excitation Laser</b>  | Violet Laser (405 nm)                                                                                 |
| <b>Application Notes</b> | Clone SJ25C1 partially blocks anti-human CD19 clones HIB19 and 4G7 staining based on in-house testing |
| <b>RRID</b>              | AB_3717219 (BioLegend Cat. No. 363055)<br>AB_3717219 (BioLegend Cat. No. 363056)                      |

## 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>Interaction</b>        | Forms a complex with CD21, CD81 and CD225 in the membrane of mature B cells and interacts with VAV and LYN. It also interacts with GRAB2 and SOS when phosphorylated on Tyr-348 and/or Tyr-378 and with PLCG2 when phosphorylated on Tyr-409. |
| <b>Ligand/Receptor</b>    | Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR co-receptor.                                                                                                                                                                             |
| <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.<br>2. Bradbury L, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:2915.                                                                                                             |
| <b>Gene ID</b>            | <a href="#">930</a>                                                                                                                                                                                                                           |

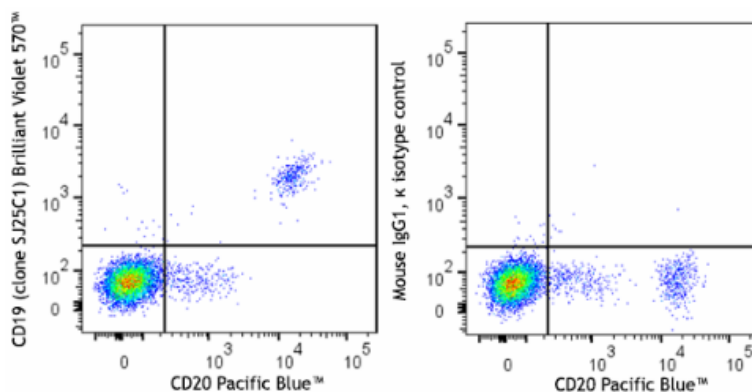
## Related Protocols

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

## Other Formats

Spark Blue™ 574 anti-human CD19, PE/Fire™ 700 anti-human CD19, Spark YG™ 581 anti-human CD19, APC/Cyanine7 anti-human CD19, PE/Cyanine7 anti-human CD19, PerCP anti-human CD19, Purified anti-human CD19, FITC anti-human CD19, Brilliant Violet 510™ anti-human CD19, PerCP/Cyanine5.5 anti-human CD19, Brilliant Violet 711™ anti-human CD19, Brilliant Violet 605™ anti-human CD19, Brilliant Violet 650™ anti-human CD19, Brilliant Violet 785™ anti-human CD19, Brilliant Violet 421™ anti-human CD19, Pacific Blue™ anti-human CD19, Spark YG™ 593 anti-human CD19, Spark Blue™ 550 anti-human CD19 (Flexi-Fluor™), PE anti-human CD19, APC anti-human CD19, APC/Fire™ 750 anti-human CD19, Alexa Fluor® 488 anti-human CD19, PE/Dazzle™ 594 anti-human CD19, Alexa Fluor® 700 anti-human CD19, PE/Cyanine5 anti-human CD19, PE/Fire™ 640 anti-human CD19, Brilliant Violet 570™ anti-human CD19 Antibody, Spark Red™ 718 anti-human CD19, Alexa Fluor® 647 anti-human CD19

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD20 (clone 2H7) Pacific Blue™ and anti-human CD19 (clone SJ25C1) Brilliant Violet 570™ (left) or mouse IgG1, κ Brilliant Violet 570™ isotype control (right).

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