# Spark NIR™ 685 anti-mouse CD19 Antibody

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| **Catalog# / Size** | 115567 / 25 µg<br>115568 / 100 µg |
| **Clone** | 6D5 |
| **Regulatory Status** | RUO |
| **Other Names** | B4 |
| **Isotype** | Rat IgG2a, κ |
| **Description** | CD19 is a 95 kD glycoprotein also known as B4. It is a member of the Ig superfamily, expressed on all pro-B to mature B cells (during development) and follicular dendritic cells. Plasma cells do not express CD19. CD19, in association with CD21 and CD81, forms a molecular complex integral to B cell activation. |

## Product Details

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| **Verified Reactivity** | Mouse |
| **Antibody Type** | Monoclonal |
| **Host Species** | Rat |
| **Immunogen** | Mouse CD19-expressing K562 human erythroleukemia cells |
| **Formulation** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide |
| **Preparation** | The antibody was purified by affinity chromatography and conjugated with Spark NIR™ 685 under optimal conditions. |
| **Concentration** | 0.5 mg/mL |
| **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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>Spark NIR™ 685 has a maximum excitation of 665 nm and a maximum emission of 685 nm. |
| **Excitation Laser** | Red Laser (633 nm) |
| **Application Notes** | Additional reported applications (for the relevant formats) include: immunofluorescence[7]. |
| **Application References**<br><br>**(PubMed link indicates BioLegend citation)** | 1. Shoham T, *et al.* 2003. *J. Immunol.* 171:4062. (FC)<br>2. Goodyear CS, *et al.* 2004. *J. Immunol.* 172:2870. (FC)<br>3. Kamimura D, *et al.* 2006. *J. Immunol.* 177:306. (FC)<br>4. Andoniou CE, *et al.* 2005. *Nat. Immunol.* 6:1011. (FC)<br>5. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366. (FC)<br>6. Phan TG, *et al.* 2007. *Nat. Immunol.* 8:992. (FC)<br>7. Hayashida K, *et al.* 2008. *J. Biol. Chem.* 283:19895. (IF) PubMed<br>8. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) PubMed<br>9. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) PubMed<br>10. Stadnisky MD, *et al.* 2011. *Blood.* 117:5133. (FC) PubMed<br>11. Perlot T, *et al.* 2012. *J. Immunol.* 188:1201. (FC) PubMed<br>12. Olive V, *et al.* 2013. *Elife.* 2:822. PubMed<br>13. Miyai T, *et al.* 2014. *PNAS.* 111:11780. PubMed |
| **RRID** | AB_2819828 (BioLegend Cat. No. 115567)<br>AB_2819829 (BioLegend Cat. No. 115568) |

## Antigen Details

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| **Structure** | Ig superfamily, associates with CD21 and CD81, 95 kD |
| **Distribution** | Pro-B cells to mature B cells (during development), follicular dendritic cells |
| **Function** | Modulates B cell activation and differentiation |
| **Ligand/Receptor** | CD21, CD81, Leu-13 |
| **Cell Type** | B cells, Dendritic cells |
| **Biology Area** | Costimulatory Molecules, Immunology |
| **Molecular Family** | CD Molecules |
| **Antigen References** | 1. Fearon DT. 1993. *Curr. Opin. Immunol.* 5:341.<br>2. Krop I, *et al.* 1996. *Eur. J. Immunol.* 26:238.<br>3. Krop I, *et al.* 1996. *J. Immunol.* 157:48.<br>4. Tedder TF, *et al.* 1994. *Immunol. Today* 15:437. |
| **Gene ID** | 12478 |

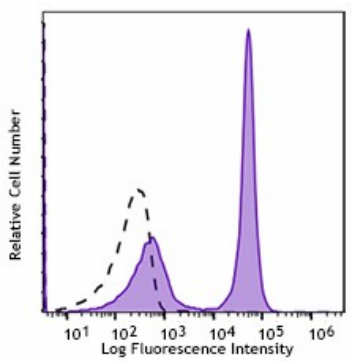
## Related Protocols

Cell Surface Flow Cytometry Staining Protocol

## Other Formats

APC anti-mouse CD19, Biotin anti-mouse CD19, FITC anti-mouse CD19, PE anti-mouse CD19, PE/Cyanine5 anti-mouse CD19, Purified anti-mouse CD19, PE/Cyanine7 anti-mouse CD19, Alexa Fluor® 488 anti-mouse CD19, Alexa Fluor® 647 anti-mouse CD19, Pacific Blue™ anti-mouse CD19, Alexa Fluor® 700 anti-mouse CD19, APC/Cyanine7 anti-mouse CD19, PerCP anti-mouse CD19, PerCP/Cyanine5.5 anti-mouse CD19, Alexa Fluor® 594 anti-mouse CD19, Brilliant Violet 421™ anti-mouse CD19, Brilliant Violet 570™ anti-mouse CD19, Brilliant Violet 605™ anti-mouse CD19, Brilliant Violet 650™ anti-mouse CD19, Brilliant Violet 785™ anti-mouse CD19, Brilliant Violet 510™ anti-mouse CD19, Purified anti-mouse CD19 (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse CD19, Brilliant Violet 711™ anti-mouse CD19, APC/Fire™ 750 anti-mouse CD19, TotalSeq™-A0093 anti-mouse CD19, Brilliant Violet 750™ anti-mouse CD19, TotalSeq™-B0093 anti-mouse CD19, Spark Blue™ 550 anti-mouse CD19, Spark NIR™ 685 anti-mouse CD19, TotalSeq™-C0093 anti-mouse CD19, Ultra-LEAF™ Purified anti-mouse CD19, PE/Fire™ 640 anti-mouse CD19 Antibody, Spark YG™ 581 anti-mouse CD19, APC/Fire™ 810 anti-mouse CD19, Spark YG™ 570 anti-mouse CD19, Spark Blue™ 574 anti-mouse CD19 Antibody

## Product Data




C57BL/6 mouse splenocytes were stained with CD19 (clone 6D5) Spark NIR™ 685 (filled histogram.) Open histogram represents unstained cells.

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