

Alexa Fluor[®] 647 anti-human CD19 Antibody

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| Catalog# / Size | 396303 / 25 µg 396304 / 100 µg |
| Clone | A17136C |
| Regulatory Status | RUO |
| Other Names | B4, CVID3 |
| Isotype | Mouse IgG2b, 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

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| Verified Reactivity | Human |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | Recombinant human CD19 |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Preparation | The antibody was purified by affinity chromatography and conjugated with Alexa Fluor [®] 647 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 | IHC-P - Quality tested |
| Recommended Usage | <p>Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5.0 - 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor[®] 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor[®] and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p> |
| Excitation Laser | Red Laser (633 nm) |
| RRID | AB_2801070 (BioLegend Cat. No. 396303) AB_2801071 (BioLegend Cat. No. 396304) |

Antigen Details

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| Structure | Ig superfamily, type I transmembrane glycoprotein, 95 kD |
| Distribution | Normal and malignant B lymphocytes |
| Function | B cell activation and differentiation |

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| Interaction | 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. |
| Ligand/Receptor | Forms complex with CD21 (CR2) and CD81 (TAPA-1), BCR coreceptor |
| Cell Type | B cells, Lymphocytes |
| Biology Area | Costimulatory Molecules, Immunology |
| Molecular Family | CD Molecules |
| Antigen References | <ol style="list-style-type: none"> 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 |

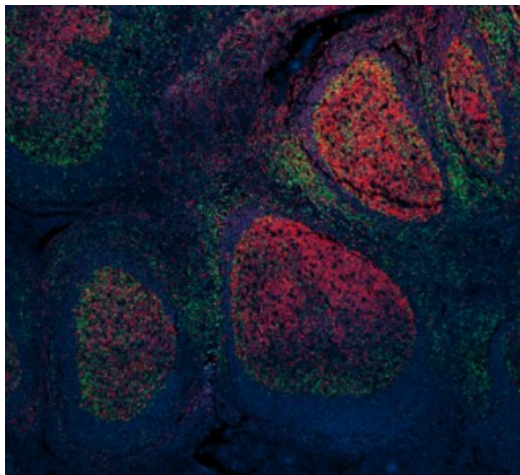
Related Protocols

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

Other Formats

Alexa Fluor® 647 anti-human CD19, Alexa Fluor® 594 anti-human CD19, Purified anti-human CD19

Product Data



Human paraffin-embedded tonsil tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Sodium Citrate H.I.E.R. 1X at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/mL of anti-human CD19 (clone A17136C) Alexa Fluor® 647 (red) and anti-human CD45RO (clone UCHL1) Alexa Fluor® 594 (green) at 4°C overnight. Nuclei were counterstained with DAPI (blue). The image was captured with a 10X objective.

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