

Alexa Fluor® 488 anti-Bcl-2 Antibody

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| Catalog# / Size | 658703 / 25 tests 658704 / 100 tests |
| Clone | 100 |
| Regulatory Status | RUO |
| Other Names | B-Cell CLL/Lymphoma 2 (Bcl-2), Protein Phosphatase 1, Regulatory Subunit 50 |
| Isotype | Mouse IgG1 |
| Description | Bcl-2 is a conserved anti-apoptotic protein that plays important roles in normal immunity. It forms homodimers or heterodimers with other Bcl-2 family members. This protein regulates apoptosis through controlling mitochondrial fusion and fission. Phosphorylation of Bcl-2 has been shown to enhance activity to allow response to extracellular growth-factor-mediated signals. Bcl-2 is also regulated by IRES, miR-15a, miR-16-1 and RNA-BP nucleolin. Chromosome 18q21.3 translocation and overexpression of Bcl-2 is frequently observed in follicular lymphomas and some diffuse large B-cell lymphomas. |

Product Details

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| Verified Reactivity | Human |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | Synthetic peptide of amino acids 41-54 of human bcl-2 oncoprotein |
| 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 Alexa Fluor® 488 under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| 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 | ICFC - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by intracellular 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. * Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm. Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation. View full statement regarding label licenses |
| Excitation Laser | Blue Laser (488 nm) |
| Application References | <ol style="list-style-type: none"> 1. Pezzella F, <i>et al.</i> 1993. <i>New Eng. J. Med.</i> 329:690. (IHC) 2. Pezzella F, <i>et al.</i> 1990. <i>Am. J. Pathol.</i> 137:225. (IHC) 3. Radtke AJ, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:33455-65. (SB) PubMed 4. Radtke AJ, <i>et al.</i> 2022. <i>Nat Protoc.</i> 17:378-401. (SB) PubMed |
| (PubMed link indicates BioLegend citation) | |
| Product Citations | <ol style="list-style-type: none"> 1. Ramos CV, <i>et al.</i> 2020. <i>Cell Reports.</i> 32(3):107910. PubMed 2. Nel I, <i>et al.</i> 2021. <i>Diabetologia.</i> 64(10):2306-2321. PubMed |
| RRID | AB_2563151 (BioLegend Cat. No. 658703) |

Antigen Details

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| Structure | Two isoforms, 239 or 205 amino acids in length, with a predicted molecular weight of 26 kD or 22 kD and four 'BH' domains. |
| Distribution | Outer mitochondrial membrane, nuclear membrane, endoplasmic reticulum membrane. |
| Function | Regulates apoptosis through controlling mitochondrial fusion and fission. |
| Interaction | BAX, BAD, BAK, Bcl-X(L), EI24, APAF1, BBC3, BCL2L1, BNIP1, MRPL41, TP53BP2, FKBP8 BAG1, RAF1, EGLN3, G0S2, and BOP. |
| Cell Type | B cells |
| Biology Area | Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Cell Cycle/DNA Replication, Chromatin Remodeling/Epigenetics, Immunology, Mitochondrial Function, Neuroscience, Signal Transduction, Transcription Factors, Ubiquitin/Protein Degradation |
| Antigen References | <ol style="list-style-type: none"> 1. Lin P, <i>et al.</i> 2013. <i>Curr. Hematol. Malig. Rep.</i> 8:243. 2. Tomita N. 2011. <i>J. Clin. Exp. Hematop.</i> 51:7. 3. Kelly PN, <i>et al.</i> 2011. <i>Cell Death Differ.</i> 18:1414. 4. Willimott S, <i>et al.</i> 2010. <i>Biochem. Soc. Trans.</i> 38:1571. 5. Rolland SG, <i>et al.</i> 2010. <i>Curr. Opin. Cell Biol.</i> 22:852. |
| Gene ID | 596 |

Related Protocols

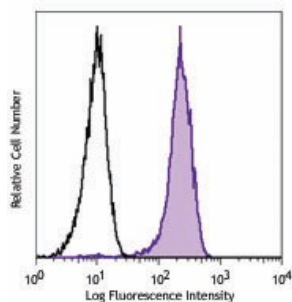
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-Bcl-2, Alexa Fluor® 647 anti-Bcl-2, Alexa Fluor® 488 anti-Bcl-2, PE anti-Bcl-2, Brilliant Violet 421™ anti-Bcl-2

Product Data



Human peripheral blood lymphocytes were treated with Fixation Buffer (Cat# 420801) and Permeabilization Wash Buffer (Cat# 421002), then stained with Bcl-2 (clone 100) Alexa Fluor® 488 (filled histogram) or mouse IgG1, κ Alexa Fluor® 488 isotype control (open histogram).

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