

## Alexa Fluor® 488 anti-Bcl-2 Antibody

<b>Catalog# / Size</b>	658703 / 25 tests 658704 / 100 tests
<b>Clone</b>	100
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	B-Cell CLL/Lymphoma 2 (Bcl-2), Protein Phosphatase 1, Regulatory Subunit 50
<b>Isotype</b>	Mouse IgG1
<b>Description</b>	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

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

## Antigen Details

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

## Related Protocols

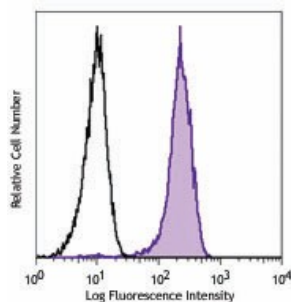
[Surface and Intracellular Cytokine Staining for Flow Cytometry - Video](#)

[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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