

Alexa Fluor® 488 anti-Bcl-2 Antibody

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

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) PubMed4. 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
RRID	AB_2563151 (BioLegend Cat. No. 658703) AB_2563152 (BioLegend Cat. No. 658704)

Antigen Details

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, BNIPL, 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

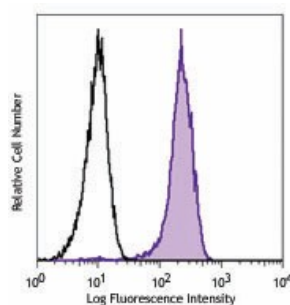
[Intracellular Cytokine Staining Protocol - Video](#)

[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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