

Bcl-2 Monoclonal Antibody (10C4), PE, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 Tests |
| Species Reactivity | Mouse, Rat |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 10C4 |
| Conjugate | PE |
| Excitation/Emission Max | 565/576 nm |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2815053 |

| Applications | Tested Dilution | Publications |
|-----------------------|---------------------|---------------|
| Flow Cytometry (Flow) | 5 µL (0.25 µg)/test | 1 Publication |

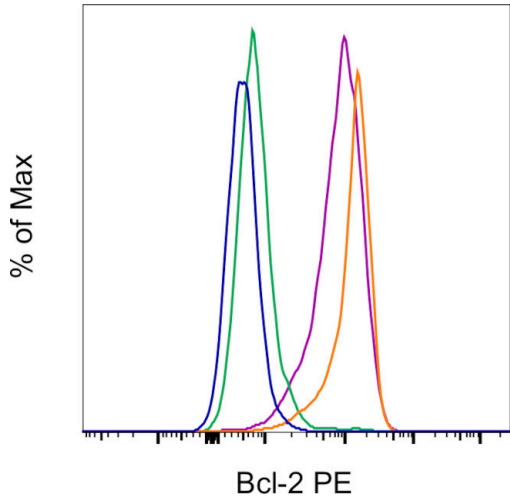
Product Specific Information

Description: The 10C4 monoclonal antibody reacts with mouse and rat Bcl-2, also known as B cell lymphoma 2. Bcl-2 is the founding member of the Bcl-2 family of evolutionarily-conserved proteins that regulate cell death/survival. Members of the Bcl-2 family include the pro-apoptotic proteins BAD, Bax, and Bim, and the anti-apoptotic proteins Bcl-2, Bcl-xL, and Mcl-1. Bcl-2 inhibits apoptosis by preventing the release of cytochrome c from the mitochondria. Mutation of Bcl-2 or overexpression of Bcl-2 due to chromosomal translocation has been identified as a contributing factor in numerous cancers. In developing thymocytes, Bcl-2 is expressed at high levels in CD4-CD8- double negative and in CD4+ and CD8+ single positive thymocytes; Bcl-2 expression is greatly diminished in CD4+CD8+ double positive thymocytes.

Applications Reported: This 10C4 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This 10C4 antibody has been pre-diluted and tested by intracellular staining followed by flow cytometric analysis of mouse thymocytes. This may be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser



Bcl-2 Antibody (12-6992-42) in Flow
Mouse thymocytes were surface stained with CD4 Monoclonal Antibody, PerCP-eFluor 710 (Product # 46-0042-82) and CD8a Monoclonal Antibody, eFluor 450 (Product # 48-0081-82) followed by intracellular staining with Anti-Mouse/Rat Bcl-2 PE using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. CD4+ single positive (purple histogram), CD8+ single positive (orange histogram), and CD4+CD8+ double positive thymocytes (green histogram) were used for analysis. Mouse IgG1 kappa Isotype Control, PE (Product # 12-4714-82) is shown in the blue histogram.

1 Reference

Flow Cytometry (1)

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|---|--------------|
| Cell reports | Year 2021 |
| Chronic stress physically spares but functionally impairs innate-like invariant T cells. | |
| "Published figure using Bcl-2 monoclonal antibody (Product # 12-6992-42) in Flow Cytometry" | |
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