



## CELL LAB Mouse Anti-Mouse/Rat Bcl-2

Cat. No.	Form	Quantity
731732	Purified (UNLB) Antibody	0.1 mg

### For Laboratory Use Only

#### DESCRIPTION

- Clone:** 10C2  
**Immunogen:** KLH-conjugated peptide corresponding to 61-76 amino acid sequence of murine Bcl-2<sup>1</sup>  
**Isotype:** Mouse IgG1  
**Specificity:** Mouse and rat Bcl-2 (Mr 26 kDa)

Apoptosis is a well-documented phenomenon in many cellular systems.<sup>2</sup> It plays a key role in tissue and organ development as well as in adult tissues during cell turnover. Apoptosis can be induced by a variety of internal and external stimuli including growth factor deprivation, cytokine treatment, antigen-receptor engagement, cell-cell interactions, irradiation and glucocorticoid treatment.<sup>3</sup> Bcl-2 is a widely studied protein that has been shown to be a potent inhibitor of programmed cell death. It has been localized to the outer mitochondrial membrane, perinuclear membrane, and endoplasmic reticulum. Bcl-2 is expressed in memory and resting, or other long-lived lymphoid cells, follicular mantle cells, medullary thymocytes, and lymphomas. Germinal center cells and cortical thymocytes are negative for Bcl-2. Upregulation of Bcl-2 prevents or delays apoptosis induced by a variety of stimuli, including growth factor deprivation,  $\gamma$ -irradiation, glucocorticoids, and chemotherapeutic agents. During lymphoid development, expression of the Bcl-2 protein appears to be regulated in a stage-specific manner, and is thought to be a survival signal for positive selection. Monoclonal antibody (MAb) 10C2 reacts with both mouse and rat Bcl-2.<sup>1</sup>

#### APPLICATIONS

- Western blotting
- Enzyme-Linked Immunosorbent Assay (ELISA)

#### CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using immunoassay.

#### WORKING DILUTIONS

**Western Blotting:** Purified antibody  $\leq 1 \mu\text{g/mL}$

**Other Applications:** Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

## HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

## STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.
5. Use Good Laboratory Practice (GLP) when handling this reagent.

## TRADEMARKS

The Beckman Coulter logo is a trademark of Beckman Coulter, Inc.

For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

## REFERENCES

1. Hsu YT and Youle RJ. 1997. Nonionic detergents induce dimerization among members of the Bcl-2 family. *J Biol Chem*, 272:13829-13834.
2. Cohen JJ. 1991. Programmed cell death in the immune system. *Adv Immunol*, 50:55-85.
3. Cohen JJ, Duke RC, Fadok VA and Sellins KS. 1992. Apoptosis and programmed cell death in immunity. *Annu Rev Immunol*, 10:267-293.



Manufactured for:  
Beckman Coulter, Inc.  
4300 N. Harbor Blvd.  
Fullerton, CA 92835  
[www.beckmancoulter.com](http://www.beckmancoulter.com)

Printed in USA  
Made in USA

© 2005 Beckman Coulter, Inc.  
All Rights Reserved.

PN 733800-A