

## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Biotinylated Rabbit Anti-Human Bcl-2 Antibody

<b>Catalog No:</b> 130-00033-50	<b>Isotype:</b> Rabbit IgG	<b>Species:</b> Human	<b>Accession No:</b> P10415
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### Description

B-cell lymphoma 2 (Bcl-2) is the member of the Bcl-2 family of apoptosis regulator proteins encoded by the BCL2 gene. The two isoforms of Bcl-2, Isoform 1, also known as 1G5M, and Isoform 2, also known as 1G50/1GJH, exhibit similar fold. However, results in the ability of these isoforms to bind to the BAD and BAK proteins, as well as in the structural topology and electrostatic potential of the binding groove, suggest differences in antiapoptotic activity for the two isoforms. Most Bcl-2 family members contain a C-terminal transmembrane domain that functions to target these proteins to the outer mitochondrial and other intracellular membranes.

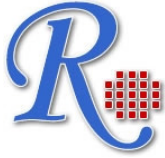
### Applications

#### Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:1,000~5,000
Western Blotting			*	
Enzyme Immunoassay(EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Preparation**

The immunogen was a synthetic peptide corresponding to the C-terminal region of Bcl-2. This antibody was produced from a rabbit immunized with this peptide conjugated with KLH. The IgG fraction was purified from rabbit serum by Protein G affinity chromatography. The purified antibody was directly labeled with biotin *in vitro*.

### **Specificity**

This biotinylated antibody can specifically bind to Bcl-2 from humans. There is no cross-reactivity with Caspase-3, Caspase-8 or Livin.

### **Reconstitution**

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

### **Storage**

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for at least 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

### **Reference**

Tsujimoto, Y.; et al., (1984). "Cloning of the chromosome breakpoint of neoplastic B cells with the t(14;18) chromosome translocation". *Science* **226** (4678): 1097–99.

Cleary, ML.; et al., (1986). "Cloning and structural analysis of cDNAs for bcl-2 and a hybrid bcl-2/immunoglobulin transcript resulting from the t(14;18) translocation". *Cell* **47** (1): 19–28.

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