

Anti-Bcl-2 Picoband Antibody

Catalog # ABO12796

### Specification

# Anti-Bcl-2 Picoband Antibody - Product Information

ApplicationWBPrimary AccessionP10415HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Apoptosis regulator Bcl-2(BCL2) detection. Tested with WB inHuman; Mouse; Rat.

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

### Anti-Bcl-2 Picoband Antibody - Additional Information

Gene ID 596

Other Names Apoptosis regulator Bcl-2, BCL2

Calculated MW 26266 MW KDa

**Application Details** Western blot, 0.1-0.5 μg/ml, Human, Mouse, Rat<br>

**Subcellular Localization** Mitochondrion outer membrane ; Single-pass membrane protein . Nucleus membrane ; Single-pass membrane protein . Endoplasmic reticulum membrane ; Single-pass membrane protein .

**Tissue Specificity** Expressed in a variety of tissues.

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human Bcl-2 (102-140aa DDFSRRYRRDFAEMSSQLHLTPFTARGRFATVVEELFRD), identical to the related mouse and rat sequences.

**Purification** Immunogen affinity purified.



**Cross Reactivity** No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

## Anti-Bcl-2 Picoband Antibody - Protein Information

Name BCL2

Function

Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells (PubMed: <a href="http://www.uniprot.org/citations/1508712" target=" blank">1508712</a>, PubMed:<a href="http://www.uniprot.org/citations/8183370" target=" blank">8183370</a>). Regulates cell death by controlling the mitochondrial membrane permeability (PubMed:<a href="http://www.uniprot.org/citations/11368354" target=" blank">11368354</a>). Appears to function in a feedback loop system with caspases (PubMed: <a href="http://www.uniprot.org/citations/11368354" target=" blank">11368354</a>). Inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1) (PubMed:<a href="http://www.uniprot.org/citations/11368354" target=" blank">11368354</a>). Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function (PubMed:<a href="http://www.uniprot.org/citations/18570871" target="\_blank">18570871</a>, PubMed:<a href="http://www.uniprot.org/citations/21358617" target=" blank">21358617</a>, PubMed:<a href="http://www.uniprot.org/citations/20889974" target=" blank">20889974</a>). May attenuate inflammation by impairing NLRP1inflammasome activation, hence CASP1 activation and IL1B release (PubMed:<a href="http://www.uniprot.org/citations/17418785" target=" blank">17418785</a>).

#### **Cellular Location**

Mitochondrion outer membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein. Cytoplasm {ECO:0000250|UniProtKB:P10417}

**Tissue Location** Expressed in a variety of tissues.

#### Anti-Bcl-2 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- <u>Dot Blot</u>
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

**Anti-Bcl-2 Picoband Antibody - Images** 







# Anti-Bcl-2 Picoband Antibody - Background

Immunoreactive BCL2 protein in the neoplastic cells of almost all follicular lymphomas whereas no BCL2 protein was detected in follicles affected by nonneoplastic processes or in normal lymphoid tissue. Every tumor with molecular-genetic evidence of t(14;18) translocation expressed detectable levels of BCL2 protein, regardless of whether the breakpoint was located in or at a distance from the BCL2 gene. Overexpression of BCL2 blocks the apoptotic death of a pro-B-lymphocyte cell line.