

Anti-Bcl-2 Picoband Antibody
Catalog # ABO12796**Specification**

Anti-Bcl-2 Picoband Antibody - Product Information

Application	WB
Primary Accession	P10415
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Apoptosis regulator Bcl-2(BCL2) detection. Tested with WB in Human;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

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 reconstitution, 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: [1508712](http://www.uniprot.org/citations/1508712), PubMed: [8183370](http://www.uniprot.org/citations/8183370)). Regulates cell death by controlling the mitochondrial membrane permeability (PubMed: [11368354](http://www.uniprot.org/citations/11368354)). Appears to function in a feedback loop system with caspases (PubMed: [11368354](http://www.uniprot.org/citations/11368354)). 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: [11368354](http://www.uniprot.org/citations/11368354)). Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function (PubMed: [18570871](http://www.uniprot.org/citations/18570871), PubMed: [20889974](http://www.uniprot.org/citations/20889974), PubMed: [21358617](http://www.uniprot.org/citations/21358617)). May attenuate inflammation by impairing NLRP1-inflammasome activation, hence CASP1 activation and IL1B release (PubMed: [17418785](http://www.uniprot.org/citations/17418785)).

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.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Bcl-2 Picoband Antibody - Images

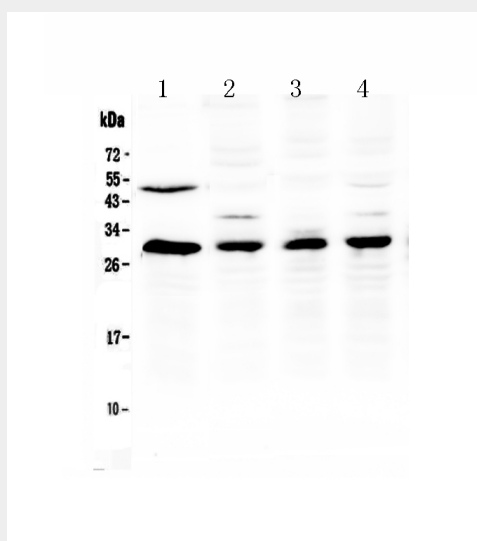


Figure 1. Western blot analysis of Bcl-2 using anti-Bcl-2 antibody (ABO12796).

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.