10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BCL2 Antibody(Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19560c

Product Information

Application	WB, E
Primary Accession	P10415
Other Accession	P49950, P10417, Q9JJV8, Q00709, O02718, NP_000624.2
Reactivity	Human
Predicted	Bovine, Chicken, Hamster, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB41153
Calculated MW	26266
Antigen Region	144-171

Additional Information

Gene ID	596
Other Names	Apoptosis regulator Bcl-2, BCL2
Target/Specificity	This BCL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-171 amino acids from the Central region of human BCL2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BCL2 Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BCL2
Function	Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells (PubMed:1508712, PubMed:8183370). Regulates cell death by controlling the mitochondrial membrane permeability

(PubMed:11368354). Appears to function in a feedback loop system with caspases (PubMed: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). Also acts as an inhibitor of autophagy: interacts with BECN1 and AMBRA1 during non-starvation conditions and inhibits their autophagy function (PubMed:18570871, PubMed:20889974, PubMed:21358617). May attenuate inflammation by impairing NLRP1- inflammasome activation, hence CASP1 activation and IL1B release (PubMed: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.

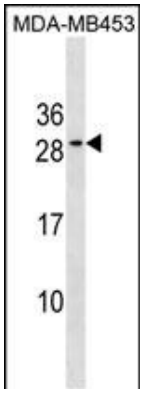
Background

This gene encodes an integral outer mitochondrial membrane protein that blocks the apoptotic death of some cells such as lymphocytes. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. Two transcript variants, produced by alternate splicing, differ in their C-terminal ends. [provided by RefSeq].

References

Feng, H., et al. Cancer Cell 18(4):353-366(2010)
Azad, N., et al. Ann. N. Y. Acad. Sci. 1203, 1-6 (2010) :
Dubikov, A.I., et al. Scand. J. Rheumatol. 39(5):368-372(2010)
Yu, B., et al. J. Exp. Clin. Cancer Res. 29, 107 (2010) :
Trisciuoglio, D., et al. PLoS ONE 5 (7), E11772 (2010) :

Images



BCL2 Antibody (Center) (Cat. #AP19560c) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the BCL2 antibody detected the BCL2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.