10320 Camino Santa Fe, Suite G
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KD-Validated Anti-Bcl-2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2315

Specification

KD-Validated Anti-Bcl-2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P10415
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 26 kDa , observed, 26 kDa KDa**
Gene Name	**BCL2**
Aliases	**BCL2 Apoptosis Regulator; PPP1R50; Bcl-2; Protein Phosphatase 1, Regulatory Subunit 50; Apoptosis Regulator Bcl-2; B-Cell CLL/Lymphoma 2; BCL2, Apoptosis Regulator**
Immunogen	**A synthesized peptide derived from human Bcl-2**

KD-Validated Anti-Bcl-2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**596**

Other Names

Apoptosis regulator Bcl-2, BCL2

KD-Validated Anti-Bcl-2 Rabbit Monoclonal Antibody - 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:<a

href="http://www.uniprot.org/citations/17418785" target="_blank">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}

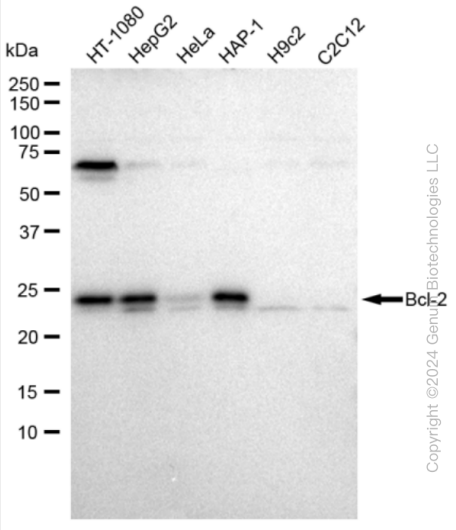
Tissue Location
Expressed in a variety of tissues.

KD-Validated Anti-Bcl-2 Rabbit Monoclonal 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 Cytomety
- Cell Culture

KD-Validated Anti-Bcl-2 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Bcl 2 antibody (Cat#AGI2315). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Bcl 2 antibody (Cat#AGI2315, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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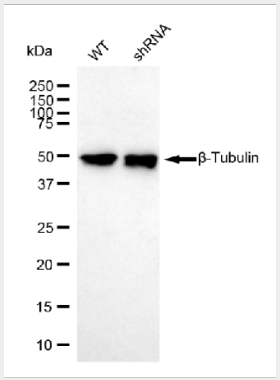
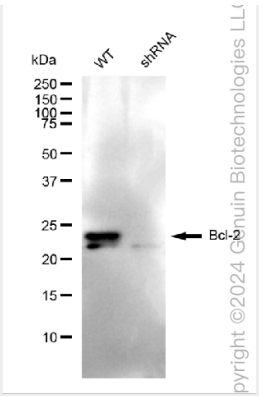
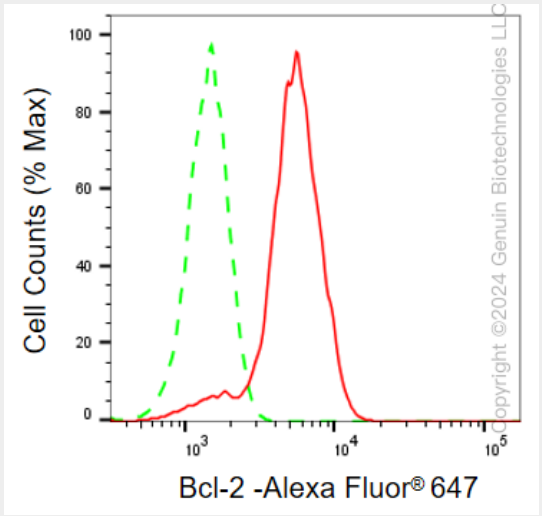
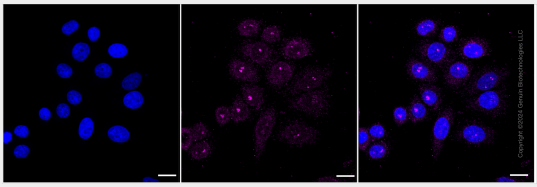




Western blotting analysis using anti-Bcl-2 antibody (Cat#AGI2315). Bcl-2 expression in wild type (WT) and Bcl-2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Bcl-2 antibody (Cat#AGI2315, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Bcl-2 expression in HepG2 cells using anti-Bcl-2 antibody (Cat#AGI2315, 1:2,000). Green, isotype control;red, Bcl-2.



Immunocytochemical staining of HepG2 cells with Bcl-2 antibody (Cat#AGI2315, 1:1,000). Nuclei were stained blue with DAPI; Bcl-2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.