Human Bcl-2 antibody

Catalog Number: ATGA0190

PRODUCT INFORMATION

Catalog number
ATGA0190

Clone No.
AT1B5

Product type
Monoclonal Antibody

UnitProt No.
P10415

NCBI Accession No.
NP_000624

Alternative Names
BCL2 apoptosis regulator, B-cell CLL/lymphoma 2, PPP1R50, protein phosphatase 1, regulatory subunit 50

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human Bcl-2 (1-211aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF, FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

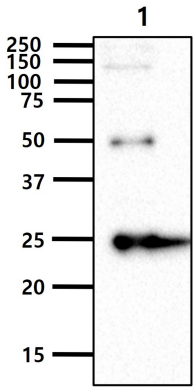
Bcl-2 (B-cell lymphoma protein 2 alpha) is an anti-apoptotic protein located primarily in the outer mitochondrial membrane. It blocks the apoptotic death of some cells such as lymphocytes. BCL-2 is thought to regulate cell death by controlling the mitochondrial membrane permeability during apoptosis. Bcl-2 protein has anti-apoptotic functions through inhibiting caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1).

General References

Zamzami N., et al,. (1998) Oncogene. 16(17):2265-82.
Fernandez-Sarabia MJ., et al,. (1993) Nature. 366(6452):274-5.

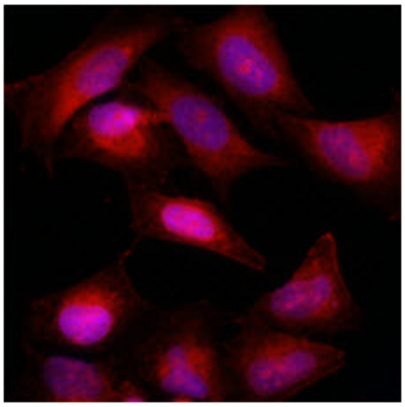
DATA

Western blot analysis (WB)



The recombinant protein (50ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Bcl2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant human Bcl2 protein

Immunocytochemistry/Immunofluorescence (ICC/IF)

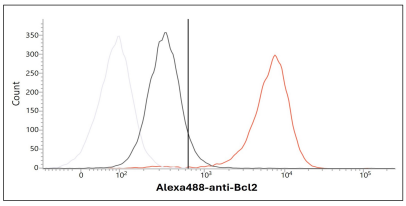


Immunofluorescence of HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and with monoclonal anti-human Bcl-2 antibody (1:500) with Texas Red (Red).

Flow cytometry (FACS)

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Flow cytometry analysis of Bcl2 in HeLa cells. The cell was stained with ATGA0190 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).