

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).

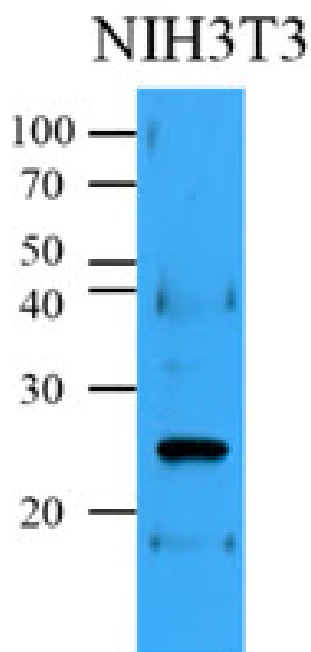
General References

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)

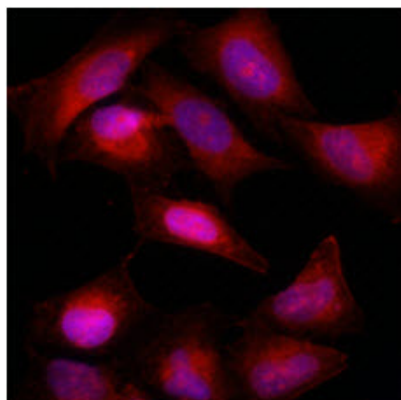


The cell lysate of NIH3T3 (35ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Bcl-2 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

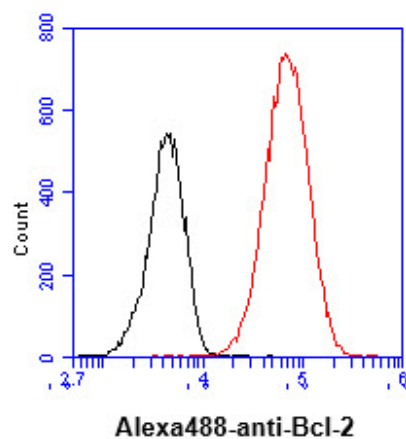
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Immunofluorescence of HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and with monoclonal anti-human Bcl-2 antibody (1:500) with Texas Red (Red).

Flow cytometry (FACS)



Flow cytometry analysis of Bcl-2 in HeLa cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).