

Datasheet for ABIN638444

anti-Bcl-2 antibody (AA 41-54) (PE)[4 Images](#)[5 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 tests
Target:	Bcl-2 (BCL2)
Binding Specificity:	AA 41-54
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Bcl-2 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Synthetic peptide corresponding to the amino acids 41-54 of human Bcl2
Clone:	Bcl-2-100
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody Bcl-2/100 recognizes Bcl2, a 26 kDa intracellular protooncogen with anti-apoptotic effect, expressed in outer mitochondrial membrane, endoplasmic reticulum and nuclear envelope.
No Cross-Reactivity:	Mouse
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	Bcl-2 (BCL2)
Alternative Name:	Bcl2 (BCL2 Products)
Background:	BCL2 apoptosis regulator,Bcl2 (B cell chronic lymphatic leukemia protein 2) is a proto-oncogen, which can contribute to tumorigenesis by counteracting apoptosis in various cell types. The anti-apoptotic effect of Bcl2 is performed by its interactions with suppressors and agonists of cell death and under physiological conditions it is regulated by proteolytic processing and phosphorylation. Bcl2 expression can be detected mainly in lymphoid tissues and in the basal cells of epithelial tissues. It is also a marker that can help in classification of lymphoproliferative diseases and in prognostics of some epithelial neoplasms.,Bcl-2, PPP1R50
Gene ID:	596
UniProt:	P10415
Pathways:	MAPK Signaling , PI3K-Akt Signaling , Apoptosis , Caspase Cascade in Apoptosis , Regulation of Muscle Cell Differentiation , Cell-Cell Junction Organization , Skeletal Muscle Fiber Development , Autophagy , Smooth Muscle Cell Migration , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. Intracellular staining.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.

Handling

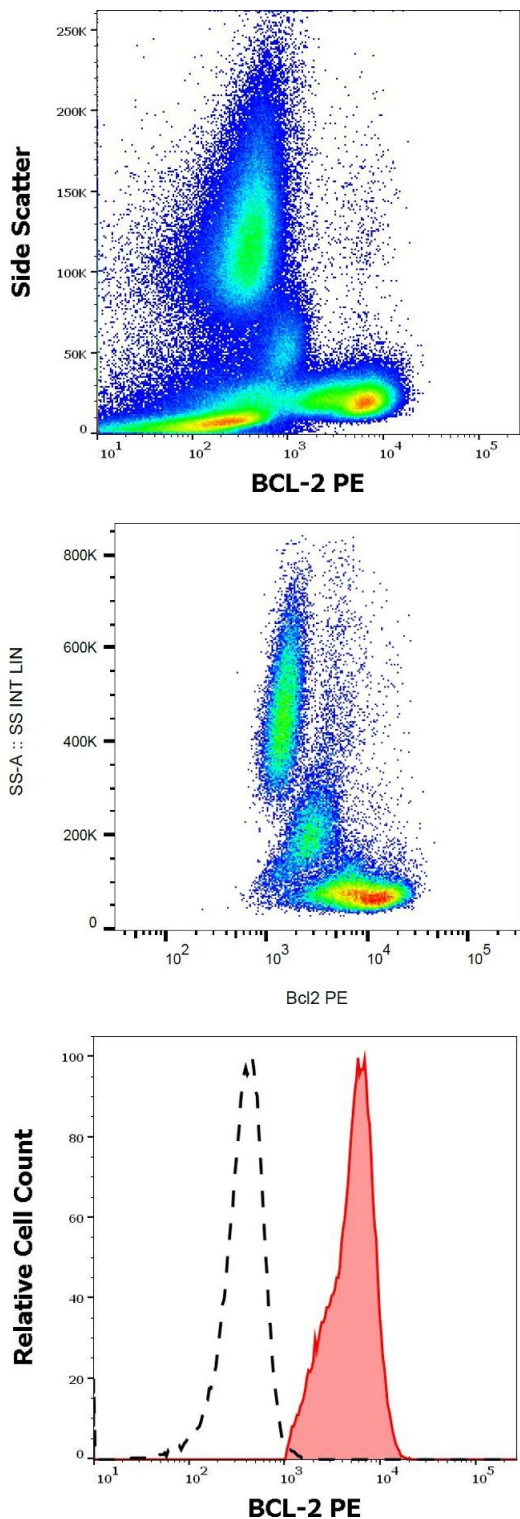
Avoid prolonged exposure to light.

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

- Product cited in:
- Joubert, Marais, Maritz: "Influence of 2-methoxyestradiol on MCF-7 cells: an improved differential interference contrasting technique and Bcl-2 and Bax protein expression levels." in: **Biocell : official journal of the Sociedades Latinoamericanas de Microscopía Electronica ... et. al**, Vol. 33, Issue 1, pp. 67-70, (2009) ([PubMed](#)).
- Laforge, Petit, Estaquier, Senik: "Commitment to apoptosis in CD4(+) T lymphocytes productively infected with human immunodeficiency virus type 1 is initiated by lysosomal membrane permeabilization, itself induced by the isolated expression of the viral protein Nef." in: **Journal of virology**, Vol. 81, Issue 20, pp. 11426-40, (2007) ([PubMed](#)).
- Gugasyan, Christou, O'Reilly, Strasser, Gerondakis: "Bcl-2 transgene expression fails to prevent fatal hepatocyte apoptosis induced by endogenous TNFalpha in mice lacking RelA." in: **Cell death and differentiation**, Vol. 13, Issue 7, pp. 1235-7, (2006) ([PubMed](#)).
- Laflamme, Israël-Assayag, Cormier: "Apoptosis of bronchoalveolar lavage lymphocytes in hypersensitivity pneumonitis." in: **The European respiratory journal**, Vol. 21, Issue 2, pp. 225-31, (2003) ([PubMed](#)).
- Soilu-Hänninen, Ekert, Bucci, Syroid, Bartlett, Kilpatrick: "Nerve growth factor signaling through p75 induces apoptosis in Schwann cells via a Bcl-2-independent pathway." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 19, Issue 12, pp. 4828-38, (1999) ([PubMed](#)).



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood from diffuse large B-cell lymphoma (DLBCL) patient. Sample was stained using anti-human BCL2 (Bcl-2/100) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).

Flow Cytometry

Image 2. Flow cytometry analysis (intracellular staining) of human peripheral blood with anti-Bcl2 (Bcl-2/100) PE.

Flow Cytometry

Image 3. Separation of human BCL-2 positive CD19 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood from DLBCL patient stained using anti-human BCL2 (Bcl-2/100) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN638444.