Datasheet for ABIN1981878

anti-Bcl-2 antibody (AA 41-54) (APC)

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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 APC
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Purpose:	Anti-Hu BCL2 APC
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 activated allophycocyanin (APC) under optimum

Product Details

	conditions and 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 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Intracellular staining.
Restrictions:	For Research Use only

Handling

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. Avoid prolonged exposure to light.

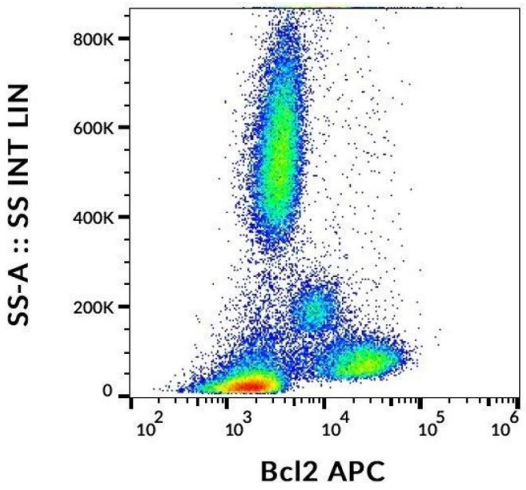
Handling

	Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

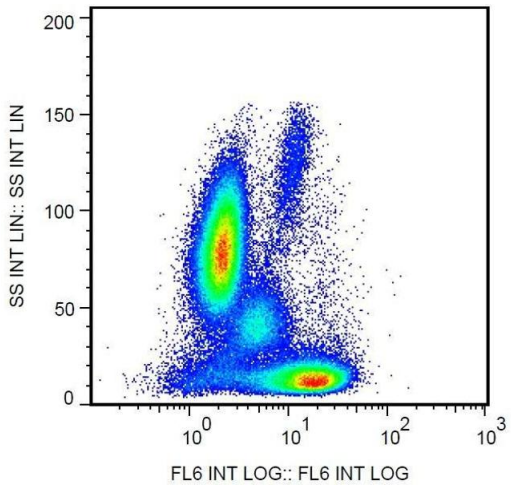
Product cited in:	Joubert, Marais, Maritz: "Influence of 2-methoxyestradiol on MCF-7 cells: an improved differential interference contrasting technique and Bcl-2 and Bax protein expression levels." in: **Biocell : official journal of the Sociedades Latinoamericanas de Microscopi?a Electronica ... et. al**, Vol. 33, Issue 1, pp. 67-70, (2009) (PubMed). Gugasyan, Christou, OReilly, 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).

Images



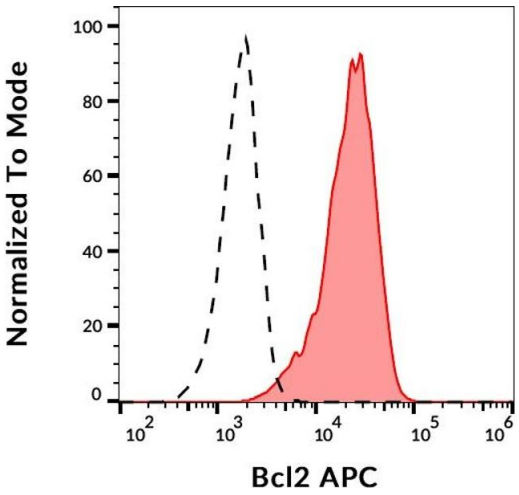
Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-human BCL-2 (Bcl-2/100) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Intracellular staining of human peripheral blood with anti-Bcl2 (Bcl-2/100) APC.



Flow Cytometry

Image 3. Separation of human lymphocytes (red-filled) from human CD45 negative blood debris (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood stained using anti-human BCL-2 (Bcl-2/100) APC antibody (10 µL reagent / 100 µL of peripheral whole blood).