

TECHNICAL DATA SHEET

CyFlow™ Bcl2 APC Anti-Hu; Clone Bcl-2/100

REF AR144180



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For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	Bcl2
Alternative Names	—
Clone	Bcl-2/100
Clonality	monoclonal
Format	APC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Mouse
Quantity	100 tests
Immunogen	Synthetic peptide corresponding to the amino acids 41-54 of human Bcl2

Specificity

The mouse monoclonal antibody Bcl2/100 recognizes Bcl2 antigen, a 26 kDa proto-oncogen with anti-apoptotic effect, expressed in outer mitochondrial membrane, endoplasmic reticulum and nuclear envelope.

Application

The reagent is designed for flow cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.09% (w/v) sodium azide and 0.2% (w/v) BSA.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

Bcl2 (B cell CLL lymphoma 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.

Warnings











Non-Hazardous Statement: This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.

Safety Data Sheet Statement: Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet (SDS). SDS are available at <http://www.sysmex-partec.com/services>, or at <https://us.sysmex-flowcytometry.com/> (U.S. customers only).

References

- Soilu-Hänninen M, Ekert P, Bucci T, Syroid D, Bartlett PF, Kilpatrick TJ: Nerve growth factor signaling through p75 induces apoptosis in Schwann cells via a Bcl-2-independent pathway. *J Neurosci.* 1999 Jun 15; 19(12):4828-38. < PMID: 10366617 >
- Laflamme C, Israël-Assayag E, Cormier Y: Apoptosis of bronchoalveolar lavage lymphocytes in hypersensitivity pneumonitis. *Eur Respir J.* 2003 Feb; 21(2):225-31. < PMID: 12608434 >
- Gugasyan R, Christou A, O'Reilly LA, Strasser A, Gerondakis S: Bcl-2 transgene expression fails to prevent fatal hepatocyte apoptosis induced by endogenous TNFalpha in mice lacking RelA. *Cell Death Differ.* 2006 Jul; 13(7):1235-7. < PMID: 16485035 >
- Laforge M, Petit F, Estaquier J, Senik A: 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. *J Virol.* 2007 Oct; 81(20):11426-40. < PMID: 17670831 >
- Joubert A, Marais S, Maritz C: Influence of 2-methoxyestradiol on MCF-7 cells: an improved differential interference contrasting technique and Bcl-2 and Bax protein expression levels. *Biocell.* 2009 Apr; 33(1):67-70. < PMID: 19499887 >

Symbols

	Reference number		Contains sufficient for <n> tests
	For research use only		Temperature limit
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use-by date		Unique device identifier