

TECHNICAL DATA SHEET

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

REF AE483629

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	Bcl2
Alternative Names	—
Clone	Bcl-2/100
Clonality	monoclonal
Format	PE
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

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Specificity

The mouse monoclonal antibody Bcl2/100 recognizes Bcl2 antigen, a 26 kDa protooncogen 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 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (2 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 0.1% (w/v) sodium azide.

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.

References

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- 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 >

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- 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 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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