

1F-668-T100

Monoclonal Antibody to Bcl2 Fluorescein (FITC) conjugated (100 tests)

Clone:	Bcl-2/100
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody Bcl-2/100 recognizes Bcl2, a 26 kDa protooncogen with anti-apoptotic effect, expressed in outer mitochondrial membrane, endoplasmic reticulum and nuclear envelope.
Regulatory Status:	RUO
Immunogen:	Synthetic peptide corresponding to the amino acids 41-54 of human Bcl2
Species Reactivity:	Human
Negative Species:	Mouse
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

References:

- *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.
- *Laflamme C, Israël-Assayag E, Cormier Y: Apoptosis of bronchoalveolar lavage lymphocytes in hypersensitivity pneumonitis. *Eur Respir J.* 2003 Feb;21(2):225-31.
- *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.
- *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.
- *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.
- *And other.

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