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Monoclonal Antibody to Bcl-2-like 1 (Bcl-xL) - FITC

Alternate names:	BCL2L, BCL2L1, BCLX, Bcl-2-like protein 1, Bcl-x, Bcl2-L-1, bcl-xL, bcl-xS
Catalog No.:	AM08172FC-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	Apoptosis, or programmed cell death, is a well-documented phenomenon in many cellular systems. (Ref.1) It plays a key role in tissue and organ development as well as in adult tissues during cell turnover. Apoptosis can be induced by a variety of internal and external stimuli including growth factor deprivation, cytokine treatment, antigen-receptor engagement, cell-cell interactions, irradiation and glucocorticoid treatment. (Ref.2) Bcl-2 and one of its homologues, Bcl-xL, protect cells from apoptosis (Ref.3,4) while other homologues of Bcl-2 such as Bax, Bad and Bak have been shown to enhance apoptosis. (Ref.5-8) Bcl-xL has been shown to block apoptosis which is induced by a variety of stimuli and, under certain conditions, offers greater protection against apoptosis than Bcl-2. (Ref.9-13) In contrast, Bad and Bax inhibit the protective functions of Bcl-xL and Bcl-2, respectively. Although heterodimerization between Bcl-xL/Bad and Bcl-2/Bax was originally thought to be essential for the differential anti-apoptotic activity of Bcl-xL and Bcl-2. (Ref.5,14)
	Other results suggest that the formation of heterodimers may not be necessary for this death-repressing activity. (Ref.15,16)
Uniprot ID:	<u>Q07817</u>
NCBI:	<u>9606</u>
Host / Isotype:	Mouse / IgG3
Clone:	7B2.5
Immunogen:	Recombinant Bcl-xS.
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: $\langle \rangle = 3 \ \mu g / 10e6$ cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes Bcl-xL. Species: Human, Mouse and Rat. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



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Storage:	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	 Cohen, J.J. 1991. Adv. Imunol. 50:55. Cohen, J.J., and R.C. Duke. 1992. Annu. Rev. Immunol. 10:2676. Nunez, G., and M.F. Clarke. 1994. Trends Cell Biol. 4:399. Cory, S. 1995. Annu. Rev. Immunol. 13:513. Oltvai., Z.N., C.L. Millman, and S.J. Korsmeyer. 1993. Cell 74:609. Farrow, S.N., et al. 1995. Nature 374:731. Chittenden, T., et al. 1995. Nature 374:736. Boise, L.H., M. Gonzalez-Garcia, C.E. Postema, L. Ding, T. Lindstein, L.A. Turka, X. Mao, G. Nunez, and C.B. Thompson 1993. Cell 74:597. Gottschalk, A.R., L.H. Boise, C.B. Thompson, and J. Quintans. 1994. Proc. Natl. Acad. Sci. USA 91:7350. Gonzalez-Garcia, M., I. Garcia, L. Ding, S. O'Shea, L.H. Boise, C.B. Thompson, and G. Nunez. 1995. Proc. Natl. Acad. Sci. USA 92:4304 Dole, M.G., R. Jasty, M.J. Cooper, C.B. Thompson, G. Nunez, and V.P. Castle. 1995. Can. Res. 55:2576. Shimizu, S., et al. 1995. Nature 374:811. Yin, X.M., Z.N. Oltvai, and S.J. Korsmeyer. 1994. Nature 369:321. Cheng, E.HY., et al. 1996. Nature 379:554. Gottschalk, A.R., L.H. Boise, Z.N. Oltvai, M.A. Accavitti, S.J. Korsmeyer, J. Quintans, and C.B. Thompson. 1996. Cell Death and Differentiation 3:113. Boise, L.H. 1997. Personal communication.

