upstate | CHEMICON | Linco
THE EXPERTISE OF UPSTATE®, CHEMICON® AND LINCO® IS NOW A PART OF MILLIPORE

MOUSE ANTI-HUMAN BCL-X_L MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB3121

LOT NUMBER:

QUANTITY: 50 µg

CONCENTRATION: 0.1 mg/mL

SPECIFICITY: Apoptosis, or programmed cell death, is a well-documented phenomenon in many cellular systems.[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.[2] Bcl-2 and one of its homologues, Bcl-X_L, protect cells from apoptosis[3,4], while other homologues of Bcl-2 such as Bax, Bad and Bak have been shown to enhance apoptosis.[5-8] Bcl-X_L 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[9-13] In contrast, Bad and Bax inhibits the protective functions of Bcl-X_L and Bcl-2, respectively. Although heterodimerization between Bcl-X_L, Bad and Bcl-2/Bax was originally thought to be essential for the differential anti-apoptotic activity of Bcl-X_L and Bcl-2[5,14] other results suggest that the formation of heterodimers may not be necessary for this death-repressing activity.[15,16]

This antibody recognizes Human Bcl-X_L (Mr 29 kDa) and Bcl-X_s (Mr 21 kDa).

IMMUNOGEN: Recombinant Bcl-X_S.

ISOTYPE: IgG_3

CLONE NAME: 7B2.5

APPLICATIONS:
Flow cytometry: ≤3µg/10^6 cells [17,18]
Immunoprecipitation [15,16]
Immunohistochemistry [17,18]
Western blotting: ≤ 0.5 µg/mL
Optimal working dilutions must be determined by end user.

FORMAT: Purified immunoglobulin - Ig fraction

PRESENTATION: Liquid in borate buffer saline, pH 8.0.

STORAGE: Store at 2-8°C for up to 12 months.

REFERENCES:

1. Cohen, J.J. (1991). *Adv. Immunol.* **50:** 55.
2. Cohen, J.J. and R.C. Duke (1992). *Annu. Rev. Immunol.* **10:** 2676.
3. Nunez, G., and M.F. Clarke (1994). *Trends Cell Biol.* **4:** 399.
4. Cory, S. (1995). *Annu. Rev. Immunol.* **13:** 513.
5. Oltvai, Z.N., C.L. Millman, and S.J. Korymeyer (1993). *Cell* **74:** 609.

28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com

6. Farrow, S.N. et al. (1995). *Nature* **371:** 731.

7. Chittenden, T. et al. (1995). *Nature* **374:** 733.

8. Kiefer, M.C. et al. (1995). *Nature* **374:** 736.

9. Boise, L.H. et al. (1993). *Cell* **74:** 597.

10. Gottschalk, A.R. et al. (1994). *Proc. Natl. Acad. Sci. USA* **91:** 7350.

11. Gonzalez-Garcia, M. et al. (1995). *Proc. Natl. Acad. Sci. USA* **92:** 4304.

12. Dole, M.G. et al. (1995). *Can. Research* **55:** 2576.

13. Shimizu, S. et al. (1995). *Nature* **374:** 811.

14. Yin, X.M., Z.N. Oltvai, and S.J. Korsmeyer. (1994). *Nature* **369:** 321.

15. Cheng, E.H. et al. (1996). *Nature* **379:** 554.

16. Gottschalk, A.R. et al. (1996). *Cell Death and Differentiation* **3:** 113.

17. Foreman, K.E., et al. (1996) *Am. J. Pathol*. **149**(3): 795-803.

18. Wrone-Smith, T., et al. (1995) *Am. J. Pathol*. **146**(5):1079-1088.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com