

Technical Data Sheet

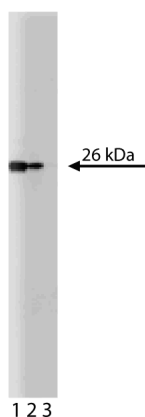
Purified Mouse Anti-Bcl-x

Product Information

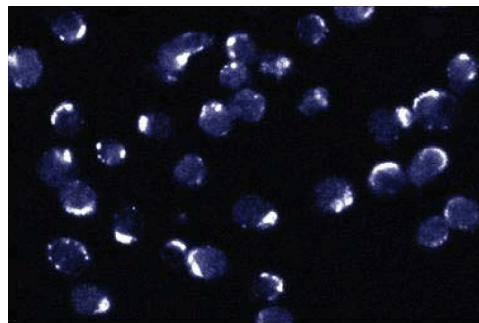
Material Number:	610747
Size:	150 µg
Concentration:	250 µg/ml
Clone:	44/Bcl-x
Immunogen:	Human Bcl-xl aa. 18-233
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat
Target MW:	26 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Bcl-x is related to the Bcl-2 protein and can function independently of Bcl-2 in regulating apoptosis (programmed cell death). The bcl-x transcript is expressed in a number of tissues, with the highest levels in the lymphoid and central nervous systems. Two distinct cDNA species, bcl-xL and bcl-xS, have been observed and appear to arise from alternate 5' splice sites located within the first coding exon of the bcl-x gene. Bcl-xL is composed of 233 amino acids and is similar in size and structure to Bcl-2. The Bcl-xS polypeptide shows a deletion of 63 amino acids which consist of the region of Bcl-xL with the highest degree of amino acid identity to Bcl-2. Like Bcl-2, Bcl-xL inhibits cell death upon growth factor withdrawal when transfected into an IL-3-dependent cell line. However, Bcl-xS inhibits Bcl-2 mediated cell survival.



Western blot analysis of Bcl-x on human endothelial cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-Bcl-x.



Immunofluorescent staining of Jurkat cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20° C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

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Suggested Companion Products

Catalog Number	Name	Size	Clone
611450	Human Endothelial Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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Devarajan P, De Leon M, Talasazan F, Schoenfeld AR, Davidowitz EJ, Burk RD. The von Hippel-Lindau gene product inhibits renal cell apoptosis via Bcl-2-dependent pathways. *J Biol Chem*. 2001; 276(44):40599-40605.(Clone-specific: Western blot)

Kishimoto H, Sprent J. Strong TCR ligation without costimulation causes rapid onset of Fas-dependent apoptosis of naive murine CD4+ T cells. *J Immunol*. 1999; 163(4):1817-1826.(Clone-specific: Flow cytometry)

Oetzel C, Jonuleit T, Gotz A, et al. The tyrosine kinase inhibitor CGP 57148 (ST1 571) induces apoptosis in BCR-ABL-positive cells by down-regulating BCL-X. *Clin Cancer Res*. 2000; 6(5):1958-1968.(Clone-specific: Western blot)

Soini Y, Kinnula V, Kaarteenaho-Wiik R, Kurttila E, Linnainmaa K, Paakko P. Apoptosis and expression of apoptosis regulating proteins bcl-2, mcl-1, bcl-X, and bax in malignant mesothelioma. *Clin Cancer Res*. 1999; 5(11):3508-3515.(Clone-specific: Immunohistochemistry, Western blot)