Technical Data Sheet

Purified Mouse Anti- Bcl-x

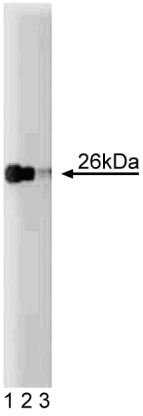
Product Information

Material Number:	**610209**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	4/Bcl-x
Immunogen:	Rat Bcl-xL aa. 18-233
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Mouse Tested in Development: Rat, Chicken
Target MW:	26 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

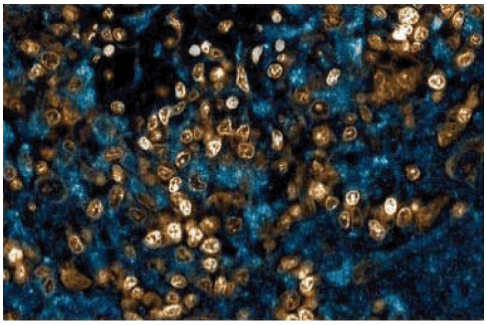
Description

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 found 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. Bcl-xS lacks 63 amino acids corresponding to the region of Bcl-xL with the highest degree of homology to Bcl-2. Like Bcl-2, Bcl-xL has been reported to inhibit cell death upon growth factor withdrawal in an IL-3-dependent cell line. However, Bcl-xS inhibits the ability of Bcl-2 to enhance cell survival in the absence of growth factors.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Bcl-x on a mouse macrophage lysate. *Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti- Bcl-x antibody.*



Immunofluorescence staining of rabbit brain.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

BD Biosciences

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Application Notes

Application

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

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611479	Mouse Macrophage 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/pharmingen/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

Anderson JS, Teutsch M, Dong Z, Wortis HH. An essential role for Bruton's [corrected] tyrosine kinase in the regulation of B-cell apoptosis. *Proc Natl Acad Sci U S A.* 1996; 93(26):10966-10971.(Biology: Western blot)

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Kurowska M, Rudnicka W, Kontny E. Fibroblast-like synoviocytes from rheumatoid arthritis patients express functional IL-15 receptor complex: endogenous IL-15 in autocrine fashion enhances cell proliferation and expression of Bcl-x(L) and Bcl-2. *J Immunol.* 2002; 169(4):1760-1767.(Biology: Flow cytometry)

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Slupianek A, Hoser G, Majsterek I. Fusion tyrosine kinases induce drug resistance by stimulation of homology-dependent recombination repair, prolongation of G(2)/M phase, and protection from apoptosis. *Mol Cell Biol.* 2002; 22(12):4189-4201.(Biology: Flow cytometry, Western blot)