

Technical Data Sheet

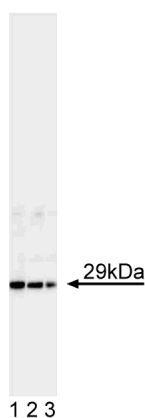
Purified Mouse Anti- Bcl-x**Product Information**

Material Number:	551022
Component:	51-6646GR
Description:	Purified Mouse Anti- Bcl-x
Size:	50 µg (3 ea)
Concentration:	0.25 mg/ml
Clone Name:	2H12
Immunogen:	Human, mouse Bcl-xL / Bcl-xS (aa. 3-14)
Isotype:	Mouse IgG2a
Target MW:	25-29 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Component:	51-16526N
Description:	Jurkat Cell Lysate
Size:	50 µg (1 ea)
Concentration:	1.0 mg/ml
Storage Buffer:	SDS-PAGE buffer (62mM Tris pH 6.8, 2% SDS, 0.9% b-mercaptoethanol, 0.003% bromophenol blue, 5% glycerol)

Description

Members of the Bcl-2 family play a major role in regulating the response of cells to a wide variety of apoptotic signals. Some Bcl-2 family members like Bcl-2, block apoptosis, whereas others promote apoptosis and inhibit Bcl-2 activity. Bcl-x is a Bcl-2 homologue that has two isoforms, resulting from alternative splicing. Bcl-xL (long) is a 241 amino acid protein (25-29 kDa) that is 47% homologous to Bcl-2 on the amino acid level. Bcl-xS (short) is a 178 amino acid protein (~ 19.5 kDa) lacking a 63 amino acid domain that is well conserved among members of the Bcl-2 protein family. Bcl-xL blocks cell death, whereas Bcl-xS inhibits Bcl-2 and promotes cell death.

The 2H12 antibody has been reported to recognize human, mouse and rat Bcl-xL (long) protein. An N-terminal peptide (amino acids 3-14) common to human and mouse Bcl-xL and Bcl-xS (short) proteins was used as the immunogen. Thus the antibody is also predicted to recognize the Bcl-xS protein as the sequence used for the immunogen is common to both Bcl-xL and Bcl-xS proteins. Reports from development, however, have indicated that Bcl-xS has not been observable.



Western blot analysis for Bcl-x. A Jurkat cell lysate (Human T-cell leukemia; ATCC TIB-152) was probed with the mouse anti- Bcl-x antibody at concentrations of 2.0 µg/mL (lane 1), 1.0 µg/mL (lane 2), and 0.5 µg/mL (lane 3).

Preparation and Storage

Store undiluted at -20°C.

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

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Application Notes

Application

Western blot	Routinely Tested
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Recommended Assay Procedure:

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

In addition to Jurkat cell lysates, MOLT-4 (Human T-lymphoblasts; ATCC CRL-1582), K-562 (Human bone marrow myelogenous leukemia; ATCC CCL-243), Hut-78 (Human T lymphoma; ATCC TIB-161), human peripheral blood mononuclear cells (PBMC), rat thymocytes and mouse thymocytes have also been reported to be useful as positive controls.

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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. Please refer to www.bdbiosciences.com/pharmlngen/protocols for technical protocols.

References

- Hsu YT, Wolter KG, Youle RJ. Cytosol-to-membrane redistribution of Bax and Bcl-X(L) during apoptosis. *Proc Natl Acad Sci U S A.* 1997; 94(8):3668-3672. (Biology: Western blot)
- Hsu YT, Youle RJ. Nonionic detergents induce dimerization among members of the Bcl-2 family. *J Biol Chem.* 1997; 272(21):13829-13834. (Immunogen: Western blot)
- Krajewski S, Krajewska M, Shabaik A, et al. Immunohistochemical analysis of in vivo patterns of Bcl-X expression. *Cancer Res.* 1994; 54(21):5501-5507. (Biology)
- Reed JC, Miyashita T, Krajewski S, et al. Bcl-2 family proteins and the regulation of programmed cell death in leukemia and lymphoma. *Cancer Treat Res.* 1996; 84:31-72. (Biology)