



**Mouse (monoclonal)
Anti-Bcl-X
Unconjugated**

PRODUCT ANALYSIS SHEET

Catalog Number:	AHO0222
Lot Number:	See product label
Expiration Date:	See Product Label
Quantity/Volume:	100 µg/0.5 mL
Clone Number:	2H12
Isotype:	IgG2a (mouse)
Form of Antibody:	Purified immunoglobulin in phosphate buffered saline, pH 7.4, with 0.2% bovine serum albumin.
Preservation:	0.09% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	Purified from ascites by Protein A chromatography.
Immunogen:	A synthetic peptide, aa 3-14 (Cys-QSNRELVVDFLS), of human Bcl-X protein. This amino acid sequence is shared by human and murine Bcl-X protein.
Myeloma/Fusion Partners:	Produced by the fusion between BALB/c splenocytes and mouse myeloma NS-1 cells.
Specificity:	This antibody recognizes Bcl-X protein and shows no cross-reaction with Bcl-2 or Bax. Bcl-X is a member of Bcl-2 family that regulates apoptosis. Alternative splicing within the first exon of Bcl-X transcripts yields two mRNA species. One mRNA encodes a 27 kDa protein called Bcl-X _L while the other mRNA encodes a 21 kDa protein called Bcl-X _S . This antibody recognizes both Bcl-X _L and Bcl-X _S . As with Bcl-2, Bcl-X _L is a negative regulator of apoptosis and overexpression of Bcl-X _L has been shown to protect cells from apoptosis induced by a variety of stimuli. In contrast, overexpression of Bcl-X _S inhibits Bcl-2 and promotes cell death. Expression of Bcl-X appears highest in lymphoid and nerve tissues. Bcl-X plays an important role in the regulation of apoptosis in normal lymphoid tissues.
Species Reactivity:	Human, mouse, rat, and pig. Other species were not tested.
Applications:	This antibody is suitable for use in immunoprecipitation, Western blotting, immunofluorescence, flow cytometry, and immunohistology with cryostat and formalin-fixed paraffin embedded tissue. Immunohistology with formalin-fixed tissue requires boiling the tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at room temperature for 20 minutes.
Suggested Working Dilutions:	For immunoprecipitation, use 2 µg per mg cell lysate protein and precipitate with protein A. For Western blotting, use a 1:200-1:400 dilution. For immunohistochemistry, use a 1:100 dilution and react with sample for 30 minutes at room temperature. The optimal antibody concentration should be determined for each specific application.

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(Rev 04/10) DCC-10-1167

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Recommended Positive Control:

Human Jurkat, K562, HL-60, HeLa, Reed Sternberg cells in Hodgkin's lymphoma, PBMCs, and mouse or rat thymocytes.

Storage:

Store at 2-8°C.

References:














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Krajewski, S., et al. (1994) Immunohistochemical analysis of in vivo patterns of Bcl-X expression. Cancer Res. 54(21):5501-5507.

Vander Heiden, M.G., et al. (1997) Bcl-xL regulates the membrane potential and volume homeostasis of mitochondria. Cell 91(5):627-637.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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