



## bcl-X

### *IHC of Bcl-X on an FFPE Hodgkin's Lymphoma Tissue*

**Description** bcl-X, or bcl-2-like 1 protein, a member of the bcl-2 protein family, inhibits cell death, or apoptosis and functions as a regulator of apoptosis. bcl-X has two isoforms: bcl-XL (Long), a 241-amino acid protein; and bcl-XS (Short), a 178-amino acid protein lacking a 63-amino acid domain that is well conserved among members of the bcl-2 family.

bcl-X is typically present in the cytosol in association with the mitochondrial membrane. bcl-XL forms heterodimers with various proteins, including Bax, Bak and bcl-2. It has been found that heterodimerization with Bax does not seem to be required for anti-apoptotic activity.

<b>Antibody Type</b>	Rabbit Polyclonal	<b>Clone</b>	N/A
<b>Isotype</b>	N/A	<b>Reactivity</b>	Paraffin, Frozen
<b>Localization</b>	Cytoplasmic and Cell/Nuclear Membrane	<b>Control</b>	Hodgkin's Lymphoma
<b>Storage</b>	Store at 2°-8°C	<b>Stability</b>	2 years

For long-term storage of the concentrated antibody, it is recommended that aliquots of the antibody be frozen at -20°C in glycerol 50% (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Dilute using an antibody diluent such as ImmunoDetector Protein Block/Antibody Diluent (BSB 0040 and BSB 0041) or ImmunoDNA Background Blocker (BSB 0103-BSB 0107).

**Presentation** Bcl-X is a purified immunoglobulin fraction of rabbit antiserum that is filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

Availability	Catalog No.	Antibody Type	Dilution	Volume/QTY
	BSB 6085	Prediluted	Ready-To-Use	3.0 ml
	BSB 6086	Prediluted	Ready-To-Use	7.0 ml
	BSB 6087	Prediluted	Ready-To-Use	15.0 ml
	BSB 6088	Concentrated	1:250-1:1000	0.1 ml
	BSB 6089	Concentrated	1:250-1:1000	0.5 ml
	BSB 6090	Concentrated	1:250-1:1000	1.0 ml
	BSB 6091	Control Slides		5

**Note:** For concentrated antibodies, please centrifuge prior to use to ensure recovery of all product.

- References**
1. Ogata Y, Takahashi M, *Drug News Perspect.* 2004;16(7):446-52
  2. Boise LH, et al. *Cell.* 1993;74(4):597-608
  3. Cheng EH, et al. *Nature.* 1996;379(6565):554-6

**Protocol** Suggested protocol on reverse

## Recommended Immunohistochemical Protocol

- Pretreatment**
1. Cut and mount 3-4 micron formalin-fixed paraffin-embedded tissues on positive charged slides.
  2. Air dry for 2 hours at 58° C.
  3. Deparaffinize, dehydrate and rehydrate tissues.
  4. Subject tissues to heat epitope retrieval using a suitable retrieval solution such as **ImmunoDNA Retriever with Citrate** (BSB 0020-BSB 0023) or **EDTA** (BSB 0030-BSB 0033).
  5. Any of three heating methods may be used:
    - a. **Electric Pressure Cooker**  
Place standoff rack at base of pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high, and incubate for 15 minutes. Open and immediately transfer slides to room temperature.
    - b. **Water Bath Method**  
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the **ImmunoDNA Retriever with Citrate** or **EDTA** in a water bath set at 95°-99° C. Incubate for 30-60 minutes.
    - c. **Conventional Steamer Method**  
Place tissues/slides in a pre-warmed staining dish or coplin jar containing the **ImmunoDNA Retriever with Citrate** or **EDTA** in a Steamer, cover and steam for 30-60 minutes.
  6. After heat treatment, transfer slides in **ImmunoDNA Retriever with Citrate** or **EDTA** to room temperature and let stand for 15-20 minutes.
  7. Wash slides with IHC wash buffer or DI water.
  8. Continue IHC staining protocol.

## Immunohistochemical Protocol

Step	ImmunoDetector (AP or HRP)	PolyDetector (AP or HRP)
Peroxidase/AP Block	5 minutes	5 minutes
Primary Antibody	30 minutes	45 minutes
Secondary Biotinylated Link	10 minutes	Not Applicable
AP or HRP Label	10 minutes	45 minutes
Substrate-Chromogen	5-10 minutes	10 minutes
Counterstaining	Time varies with counterstain	Time varies with counterstain

