Sheep Anti-h bcl-xl

Product: Sheep anti human bcl-xl antibody

Description: The immunogen for the sheep anti-human bcl-xl was a synthetic peptide corresponding to amino acids 3 to 14 of the human bcl-xl sequence. Overexpression of bcl-xl to other bcl-2 members is believed to promote cell survival. The ratio of bcl-xl to other family members is believed to modulate the apoptotic process.

Background: bcl-x is a bcl-2-related gene that can function as a regulator of programmed cell death (apoptosis) independent of bcl-2. Alternative splicing results in two distinct bcl-x mRNAs. The larger mRNA gives rise to a protein product, bcl-xl, which is similar in size and predicted structure to bcl-2 (1). The smaller mRNA gives rise to bcl-xS. bcl-x immunoreactivity has been detected in a wide variety of cell types and the protein is typically present in the cytosol in association with the mitochondrial periphery, a property shared with bcl-2 however membrane bound forms of bcl-x have been demonstrated in thymocytes (2-4). Following the induction of apoptosis all of the bcl-x protein shifts to the membrane form (2). Of the two isoforms of bcl-x, the long (bcl-xl) is the most abundant mRNA species expressed in embryonic and adult tissues and most likely differs from bcl-2 in its regulatory activity on cell differentiation through controlled tissue specific expression (1,3). Like its homolog bcl-2, bcl-x undergoes phosphorylation, a modification that requires that a specific 60 amino acid loop region be intact, which in turn appears to regulate activity (5,6). Structurally, based on 3D-structure analysis, bcl-x forms pH sensitive cation-selective ion channels in membranes a property shared with the pore forming domains of several bacterial toxins (7). Bcl-xl has been shown to modify the cell's response to oxidants, to participate in resistance to chemotherapeutic agents and radiation, and to play a key role in the development of the developing CNS (8-10).

Isotype: Sheep IgG

Application: Western Blot at 1-5 ug/ml. Positive control MCF-7 cells.

Presentation: 100 μg IgG purified from serum.

Reactivity: Reacts with human bcl-xl.

Storage: Antibodies should be stored at –20˚C. Aliquot to avoid freeze/thaw cycles.

Stability: Antibodies are stable for one year from purchase if stored frozen.

Ordering Information:	**Form**	**Vial Size**	**Catalog #**
	Purified	100 μg	A110P

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For research use only. Not for use in human diagnostics or therapeutics.

Exalpha Biologicals, Inc., 86 Rosedale Rd. Watertown, MA 02472
Tel: 800.395.1137 or 617.924.3400, Fax: 866.924.5100 or 617.924.5100, Web:www.exalpha.com

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Exalpha Biologicals, Inc., 2 Shaker Rd, #B101, Shirley, MA 01464
Tel: 800.395.1137 or 978.425.1370, Fax: 866.924.5100 or 978.425.1376, Web: www.exalpha.com