

Bcl-xL Mouse Anti-Human Monoclonal Antibody (clone 7B2.5), Biotin Conjugate

Store at 2°C to 8°C

Pub. No. MAN0007963 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A15375	Biotin	0.1 mg	—	—

Product Description

Apoptosis, or programmed cell death occurs in many cellular systems,¹ and plays a key role in tissue and organ development, and in cell turnover in adult tissues. Apoptosis can be induced by a variety of internal and external stimuli including growth factor deprivation, cytokine treatment, antigen-receptor engagement, cell-cell interactions, irradiation, and glucocorticoid treatment.² Bcl-2 and its homolog, Bcl-xL, protect cells from apoptosis,^{3,4} while other homologs of Bcl-2 such as Bax, Bad, and Bak enhance apoptosis.⁵⁻⁸ Bcl-xL blocks apoptosis induced by a variety of stimuli, and under certain conditions, offers greater protection against apoptosis than Bcl-2.⁹⁻¹³ In contrast, Bad and Bax inhibit the protective functions of Bcl-xL and Bcl-2, respectively. Although heterodimerization between Bcl xL/Bad and Bcl-2/Bax was originally thought to be essential for the differential anti-apoptotic activity of Bcl-xL and Bcl-2,^{5,14} other results suggest that the formation of heterodimers may not be necessary for this death-repressing activity.^{15,16}

Product Specifications

Clonality:	Monoclonal
Host/Class:	Mouse IgG
Reactivity:	Human Bcl-xL
Predicted Reactivity:	Human, Rodent17
Immunogen:	Recombinant Bcl-xS
Apparent MW:	29 kDa
Sequence Identity:	Human
Clone/PAD:	7B2.5
Isotype:	IgG ₃
Lot:	See product label

Product Applications

Applications reported for the Bcl-xL Mouse Anti-Human mAb include immunoprecipitation,^{15,16} immunohistochemistry,¹⁷ flow cytometry,¹⁷ and western blotting.¹⁸

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Storage and Handling

Store reagents at 2°C to 8°C. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Cells should be analyzed within 18 hours of staining for best results.

Avoid light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on the Certificate of Analysis.

Storage Buffer

Phosphate buffered saline (PBS) with 0.1% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support.

References

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Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

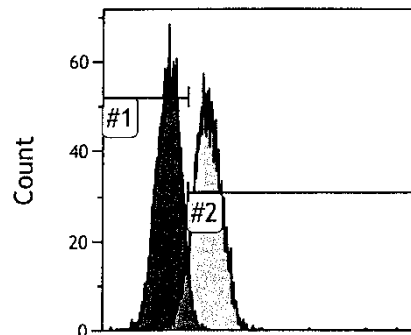


Figure 1 Immunofluorescent staining of FL5 cells stained with Bcl-xL Mouse Anti-Human Monoclonal Antibody Biotin Conjugate (Cat. no. A15375) and FITC-conjugated Streptavidin.

Murine FL5 cells (#1) and FL5 cells transfected with Bcl xL expression plasmid (#2) were fixed with buffered paraformaldehyde and then permeabilized with saponin. The cells were incubated with Mouse Anti-Human Bcl-xL Monoclonal Antibody Biotin Conjugate (1 $\mu\text{g}/10^6$ cells) followed by FITC-conjugated Streptavidin.

Related Products

Product Name	Quantity	Cat. No.
AbC™ Anti-Mouse Bead Kit	1 kit	A10344
AbC™ Anti-Rat/Hamster Bead Kit	1 kit	A10389
FIX & PERM® Reagents (200 tests)	1 kit	GAS004
LIVE/DEAD® Fixable Dead Cell Stain Kits		
Blue (UV excitation)	1 kit (200 assays)	L23105
Violet (405 nm excitation)		L34955
Yellow (405 nm excitation)		L34959
Red (488 nm excitation)		L23102
Near-IR (633/635 nm excitation)		L10119

Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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