

Bcl-xL Polyclonal Antibody

Catalog NumberPA5-32275

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Published species	Rat, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:50
Immunogen	Synthetic peptide derived from the N-terminus of human Bcl-x protein	Western Blot (WB)	1:1,000
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	5 µg
Form	Liquid	Published Applications	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	Immunohistochemistry (IHC)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody is predicted to react with mouse and rat based on sequence homology. Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 10 min at room temperature. A suggested positive control is colon carcinoma.

Background/Target Information

BCL-XL is a part of the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. BCL-XL is located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential and controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Two alternatively spliced transcript variants, which encode distinct isoforms, have been reported. The longer isoform acts as an apoptotic inhibitor and the shorter form acts as an apoptotic activator.

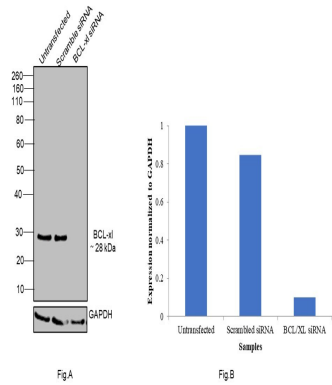
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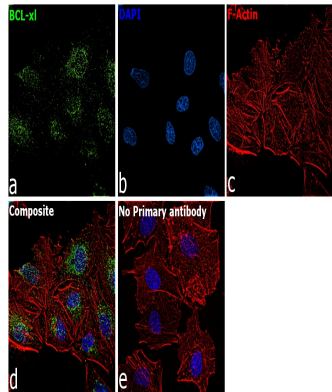
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Product Images For Bcl-xL Polyclonal Antibody



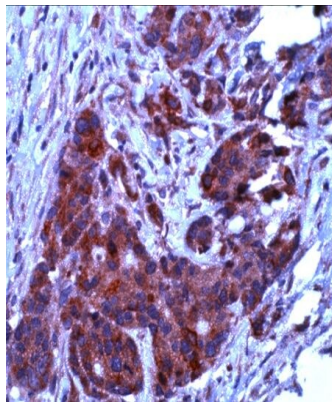
Bcl-xL Antibody (PA5-32275)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A549 cells were transfected with Bcl-xL siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Bcl-xL Polyclonal Antibody (Product # PA1-37161). {KD}



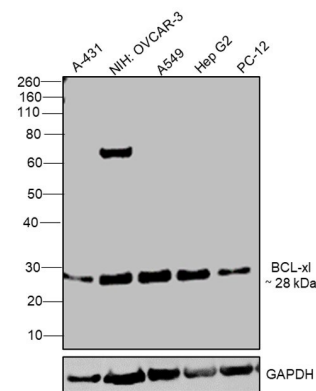
Bcl-xL Antibody (PA5-32275) in ICC/IF

Immunofluorescence analysis of Bcl-xL was performed using 70% confluent log phase A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Bcl-xL Polyclonal Antibody (Product # PA1-37161) at 5 µg in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing Cytoplasm localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60x magnification.



Bcl-xL Antibody (PA5-32275) in IHC

Immunohistochemical analysis of BCL-XL using anti-BCL-XL Polyclonal Antibody (Product # PA5-32275) in Colon Carcinoma Cancer Tissue. The recommended dilution for this antibody in immunohistochemistry applications is 1:50.



Bcl-xL Antibody (PA5-32275) in WB

Western blot was performed using Anti-Bcl-xL Polyclonal Antibody (Product # PA1-37161) and a 28kDa band corresponding to Bcl-xL was observed across cell lines tested. Whole cell extracts (30 µg lysate) of A-431 (Lane 1), NIH:OVCAR-3 (Lane 2), A549 (Lane 3), Hep G2 (Lane 4), PC-12 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 Dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

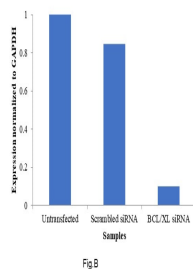
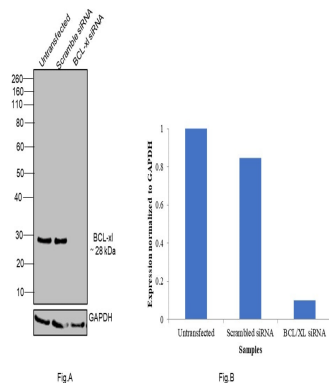
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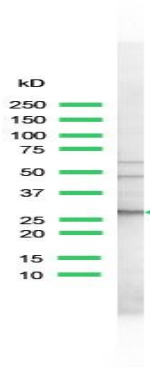
Bcl-xL Antibody (PA5-32275) in WB

Knockdown of Bcl-xL was achieved by transfecting A549 with Bcl-xL specific siRNAs (Silencer® select Product # S1921, S1920). Western blot analysis (Fig. a) was performed using Whole cell extracts from the Bcl-xL untransfected cells (lane 1), non-targeting scrambled siRNA transfected cells (lane 2) and knockdown cells (lane 3). The blot was probed with Bcl-xL Polyclonal Antibody (Product # PA1-37161, 1:1000 dilution) and Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to Bcl-xL.



Bcl-xL Antibody (PA5-32275) in WB

Western blot analysis of 293T Cells using anti-BCL-XL Polyclonal Antibody (Product # PA5-32275). The recommended dilution for this antibody in western blot applications is 1:100.



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PubMed References For Bcl-xL Polyclonal Antibody

1 Immunohistochemistry References

Species / Dilution	Summary
Rat / Not Cited	<p>PA1-37161 was used in Immunohistochemistry to determine whether simvastatin induces cardiomyocytes survival signalling in endotoxin-induced myocardial injury and a role of survivin in simvastatin-anti-apoptotic effect.</p> <p>Scientific reports (2018; 8:) "Simvastatin Protects Cardiomyocytes Against Endotoxin-induced Apoptosis and Up-regulates Survivin/NF-B /p65 Expression." Author(s):Neži L,Škrbi R,Amidži L,Gajanin R,Kua K,Jaevi V PubMed Article URL:http://dx.doi.org/10.1038/s41598-018-32376-4</p>

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