

Bcl-X Monoclonal Antibody (2H12), eBioscience™

Product Details

Size	50 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	2H12
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468381

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

Description: The 2H12 antibody reacts with human, mouse and rat Bcl-X. Bcl-X functions as a central repressor of several apoptotic signals. This antibody reacts with both Bcl-XS (short) and Bcl-XL (long) proteins.

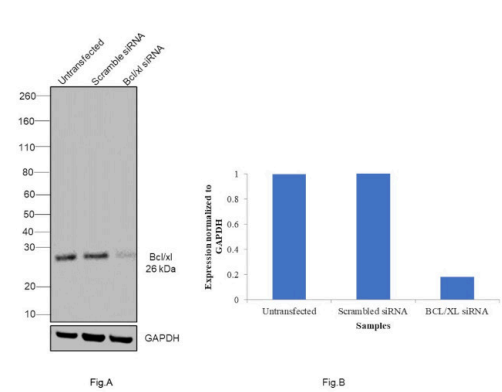
Applications Reported: The 2H12 antibody has been reported for use in immunoblotting (WB).

Applications Tested: The 2H12 antibody has been tested by Western blot analysis of HeLa lysate and can be used at less than 2 µg/mL. It is recommended that the reagent be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

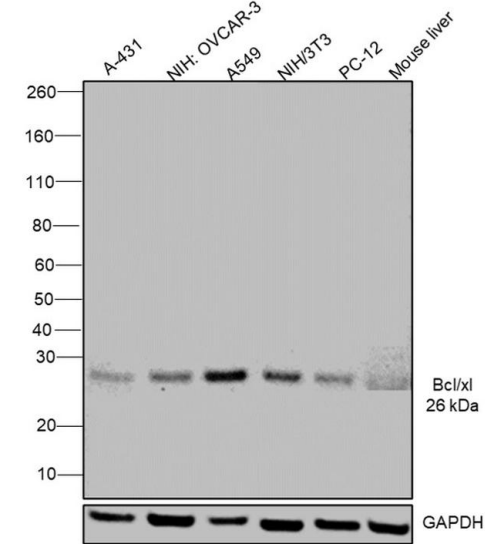


Bcl-X Antibody (14-6994-81)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A549 cells were transfected with Bcl-X siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Bcl-X Monoclonal Antibody (2H12), eBioscience™ (Product # 14-6994-81). {KD}

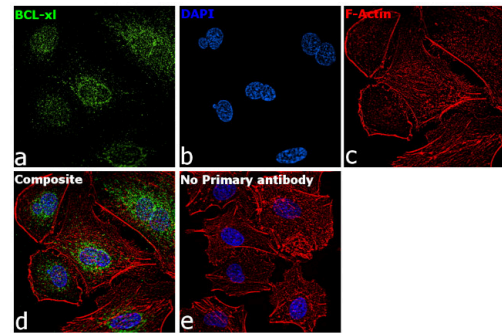
Bcl-X Antibody (14-6994-81) in WB

Western blot was performed using Anti-Bcl-X Monoclonal Antibody (2H12), eBioscience™ (Product # 14-6994-81) and a 26 kDa band corresponding to Bcl-X was observed across cell lines and tissues tested. Whole cell extracts (30 µg lysate) of A-431 (Lane 1), NIH:OVCAR-3 (Lane 2), A549 (Lane 3), NIH/3T3 (Lane 4), PC-12 (Lane 5) and mouse liver (Lane 6) 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 µg/mL concentration) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Bcl-X Antibody (14-6994-81) in ICC/IF

Immunofluorescence analysis of Bcl-X 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-X Monoclonal Antibody (2H12), eBioscience™ (Product # 14-6994-81) at 5 µg /mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175), (1:2000), 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.



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Western Blot (3)

<p>Molecules (Basel, Switzerland)</p> <p>Anticancer Activity of Continentalic Acid in B-Cell Lymphoma.</p> <p>"Published figure using Bcl-X monoclonal antibody (Product # 14-6994-81) in Western Blot"</p> <p>Authors: Jeon BE,Kwon CS, Lee JE, Moon K, Cha J, Park I, Koh S, Yoon M, Kim SW, Kim JN</p>	<p>Year</p> <p>2021</p>
<p>Rheumatology (Oxford, England)</p> <p>Heat shock protein 90 maintains the tumour-like character of rheumatoid synovial cells by stabilizing integrin-linked kinase, extracellular signal-regulated kinase and protein kinase B.</p> <p>"14-6994 was used in Western Blotting to clarify the contribution of heat shock protein 90 to the pathogenesis of rheumatoid arthritis."</p> <p>Authors: Hashiramoto A, Murata M, Kawazoe T, Yoshida K, Akiyama C, Shiozawa K, Shiozawa S</p>	<p>Year</p> <p>2011</p> <p>Species</p> <p>Human</p>

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