

Product datasheet

Anti-Bcl-XL antibody [2H12] ab77571

Recombinant

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Overview

Product name	Anti-Bcl-XL antibody [2H12]
Description	Mouse monoclonal [2H12] to Bcl-XL
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB Unsuitable for: Flow Cyt, ICC or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human colon carcinoma tissue and kidney tissue. WB: Ramos, HCT 116, C6 and NIH/3T3 whole cell lysate.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	2H12

Isotype

IgG2a

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab77571 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 26 kDa.

Application notes

Is unsuitable for Flow Cyt, ICC or IP.

Target

Function

Potent inhibitor of cell death. Inhibits activation of caspases (By similarity). Appears to regulate cell death by blocking the voltage-dependent anion channel (VDAC) by binding to it and preventing the release of the caspase activator, CYC1, from the mitochondrial membrane. Isoform Bcl-X(S) promotes apoptosis.

Tissue specificity

Bcl-X(S) is expressed at high levels in cells that undergo a high rate of turnover, such as developing lymphocytes. In contrast, Bcl-X(L) is found in tissues containing long-lived postmitotic cells, such as adult brain.

Sequence similarities

Belongs to the Bcl-2 family.

Domain

The BH4 motif is required for anti-apoptotic activity. The BH1 and BH2 motifs are required for both heterodimerization with other Bcl-2 family members and for repression of cell death.

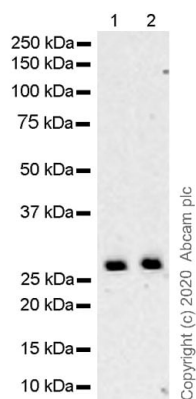
Post-translational modifications

Proteolytically cleaved by caspases during apoptosis. The cleaved protein, lacking the BH4 motif, has pro-apoptotic activity.

Cellular localization

Mitochondrion membrane. Nucleus membrane. Mitochondrial membranes and perinuclear envelope.

Images



Western blot - Anti-Bcl-XL antibody [2H12]
(ab77571)

All lanes : Anti-Bcl-XL antibody [2H12] (ab77571) at 1/1000 dilution

Lane 1 : Ramos (human Burkitt's lymphoma B lymphocyte), whole cell lysate

Lane 2 : HCT 116 (human colorectal carcinoma epithelial cell), whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

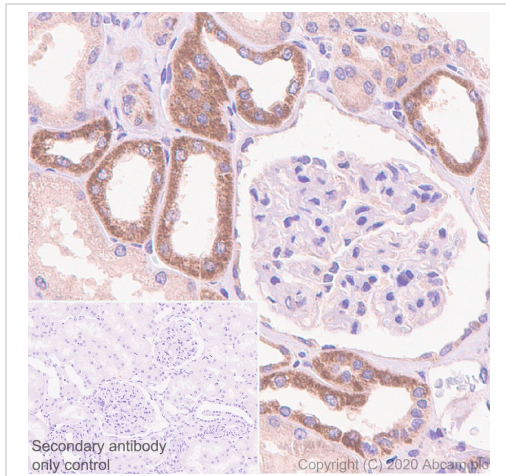
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/5000 dilution

Predicted band size: 26 kDa

Observed band size: 26 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

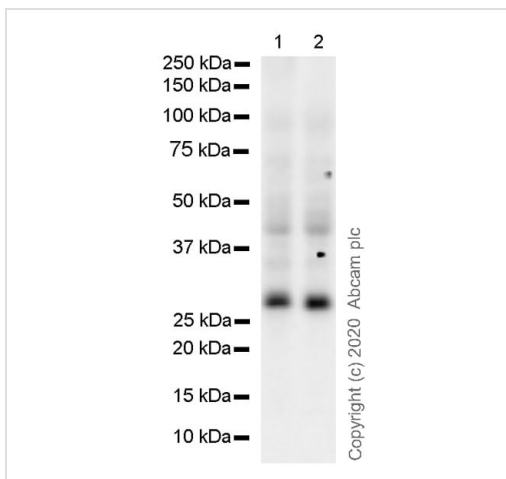


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl-XL antibody [2H12] (ab77571)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling Bcl-XL with ab77571 at 1/100 dilution followed by ready to use Goat Anti-mouse IgG H&L (HRP polymer) ([ab214879](#)). Cytoplasmic staining on human kidney. The section was incubated with ab77571 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Goat Anti-mouse IgG H&L (HRP polymer) ([ab214879](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Western blot - Anti-Bcl-XL antibody [2H12] (ab77571)

All lanes : Anti-Bcl-XL antibody [2H12] (ab77571) at 1/1000 dilution

Lane 1 : C6 (rat glial tumor glial cell), whole cell lysate

Lane 2 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/5000 dilution

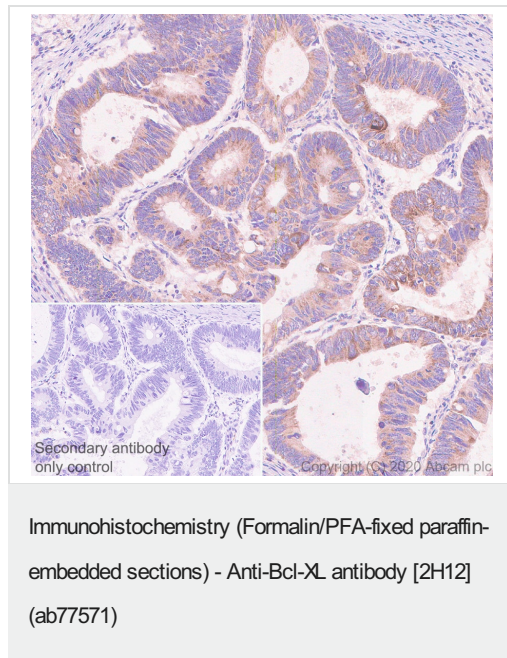
Predicted band size: 26 kDa

Observed band size: 26 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 37 seconds.







Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue labeling Bcl-XL with ab77571 at 1/100 dilution followed by ready to use Goat Anti-mouse IgG H&L (HRP polymer) ([ab214879](#)). Cytoplasmic staining on human colon carcinoma. The section was incubated with ab77571 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Goat Anti-mouse IgG H&L (HRP polymer) ([ab214879](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Bcl-XL antibody [2H12] (ab77571)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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