## Overview

**Product name**  
Anti-Bcl-XL antibody

**Description**  
Rabbit polyclonal to Bcl-XL

**Host species**  
Rabbit

**Specificity**  
This antibody detects the 30 kDa Bcl-XL protein. It does not react with other Bcl-2 family members.

**Tested applications**  
Suitable for: ICC/IF

**Species reactivity**  
Reacts with: Mouse, Rat, Human

**Immunogen**  
Synthetic peptide corresponding to Bcl-XL. Synthetic peptide surrounding amino acid 56 of human Bcl-xL  
Database link: Q07817  
(Peptide available as ab52114)

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.</td>
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</table>
| Storage buffer | pH: 7.20  
Preservative: 0.01% Thimerosal (merthiolate)  
Constituents: 30% Glycerol, 0.5% BSA, PBS |
| Purity     | Protein A purified |
| Purification notes | Affinity purified |
| Clonality  | Polyclonal |
| Isotype    | IgG |

## Applications

Our Abpromise guarantee covers the use of ab2568 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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

Images
ab2568 staining BCL-XL (green) in Mouse RAW 264.7 cells by ICC (Immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized by 0.1% Triton X-100 in 2% BSA for 15 minutes and blocked with 2% BSA for 1 hour at 22°C. Samples were incubated with primary antibody (1/250 in 2% BSA in PBS) for 16 hours at 4°C. An Alexa Fluor®488-conjugated Chicken anti-rabbit IgG polyclonal (1/750) was used as the secondary antibody. WGA (red) = Alexa Fluor®568-conjugated Wheat Germ Agglutinin

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