Product datasheet

Anti-Bcl-XL antibody ab98143

Overview

Product name: Anti-Bcl-XL antibody
Description: Rabbit polyclonal to Bcl-XL
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, ICC/IF
Species reactivity:
- Reacts with: Mouse, Human
- Predicted to work with: Rat, Rabbit, Cow, Cat, Pig
Immunogen: Recombinant fragment corresponding to Human Bcl-XL aa 1-178.
Database link: Q07817
Positive control: A549, HepG2, HCT116, NIH 3T3 cell lysates; SW480 xenograft. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: HeLa and HepG2.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer:
- pH: 7.00
- Preservative: 0.01% Thimerosal (merthiolate)
- Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab98143 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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### 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

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<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/100 - 1/500.</td>
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<td>ICC/IF</td>
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<td>Use a concentration of 5 µg/ml.</td>
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**Western blot - Anti-Bcl-XL antibody (ab98143)**

Anti-Bcl-XL antibody (ab98143) at 1/1000 dilution + 293T whole cell lysate at 30 µg

**Predicted band size:** 26 kDa

12% SDS PAGE
Immunocytochemistry/ Immunofluorescence - Anti-Bcl-XL antibody (ab98143)

ICC/IF image of ab98143 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab98143 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in formaldehyde fixed (4%, 10min) hepG2 cells at 5µg/ml.

Western blot - Anti-Bcl-XL antibody (ab98143)

Anti-Bcl-XL antibody (ab98143) at 1/1000 dilution + HCT116 whole cell lysate at 30 µg

**Predicted band size:** 26 kDa

12% SDS PAGE
Western blot - Anti-Bcl-XL antibody (ab98143)

Anti-Bcl-XL antibody (ab98143) at 1/1000 dilution + NIH 3T3 whole cell lysate at 30 µg

**Predicted band size:** 26 kDa

12% SDS PAGE

Immunohistochemical analysis of Bcl x in paraffin embedded SW480 xenograft, using ab98143 at a 1/500 dilution.

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