

## Anti-Bcl-2 antibody [E17] ab32124







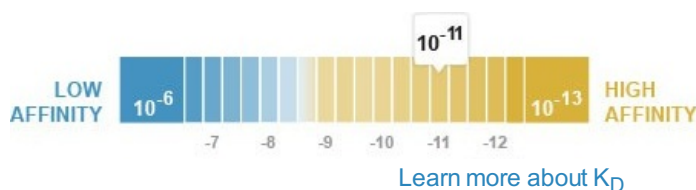

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## Overview

<b>Product name</b>	Anti-Bcl-2 antibody [E17]
<b>Description</b>	Rabbit monoclonal [E17] to Bcl-2
<b>Specificity</b>	The antibody recognises Bcl-2. It does not cross-react with other Bcl-2 family members.
<b>Tested applications</b>	WB, IHC-P, ICC/IF, Flow Cyt, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Does not react with</b> Rat
<b>Immunogen</b>	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) corresponding to Human Bcl-2 aa 50-150. Database link: <a href="#">P10415</a>
<b>Positive control</b>	Jurkat cell lysate and human breast carcinoma.
<b>General notes</b>	Produced under U.S. Patent No. 5,675,063. This product is available conjugated to DyLight® 488 see <a href="#">ab139926</a> . A trial size is available for this product.

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 3.00 x 10 <sup>-11</sup> M








<b>Storage buffer</b>	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	E17
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab32124** 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
<b>WB</b>	    	1/1000 - 1/10000. Detects a band of approximately 26 kDa (predicted molecular weight: 26 kDa).
<b>IHC-P</b>		Use at an assay dependent concentration.

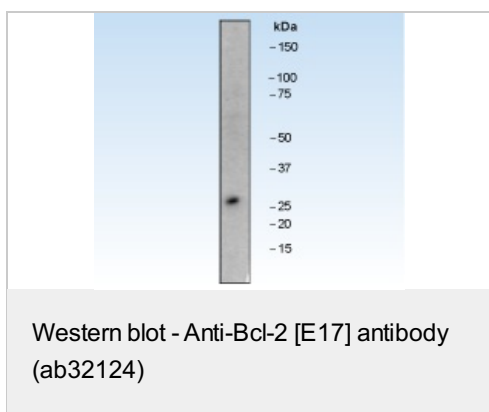
We do not recommend rat and mouse samples with IHC.

ICC/IF		1/200.
Flow Cyt	★☆☆☆☆	1/200.
IP	★★★★★	1/50.

## Target

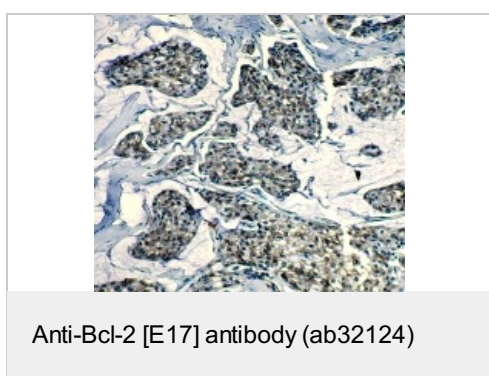
<b>Function</b>	Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells. Regulates cell death by controlling the mitochondrial membrane permeability. Appears to function in a feedback loop system with caspases. Inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1).
<b>Tissue specificity</b>	Expressed in a variety of tissues.
<b>Involvement in disease</b>	A chromosomal aberration involving BCL2 has been found in chronic lymphatic leukemia. Translocation t(14;18)(q32;q21) with immunoglobulin gene regions. BCL2 mutations found in non-Hodgkin lymphomas carrying the chromosomal translocation could be attributed to the Ig somatic hypermutation mechanism resulting in nucleotide transitions.
<b>Sequence similarities</b>	Belongs to the Bcl-2 family.
<b>Domain</b>	The BH4 motif is required for anti-apoptotic activity and for interaction with RAF1 and EGLN3.
<b>Post-translational modifications</b>	Phosphorylation/dephosphorylation on Ser-70 regulates anti-apoptotic activity. Growth factor-stimulated phosphorylation on Ser-70 by PKC is required for the anti-apoptosis activity and occurs during the G2/M phase of the cell cycle. In the absence of growth factors, BCL2 appears to be phosphorylated by other protein kinases such as ERKs and stress-activated kinases. Phosphorylated by MAPK8/JNK1 at Thr-69, Ser-70 and Ser-87, which stimulates starvation-induced autophagy. Dephosphorylated by protein phosphatase 2A (PP2A). Proteolytically cleaved by caspases during apoptosis. The cleaved protein, lacking the BH4 motif, has pro-apoptotic activity, causes the release of cytochrome c into the cytosol promoting further caspase activity. Monoubiquitinated by PARK2, leading to increase its stability.
<b>Cellular localization</b>	Mitochondrion outer membrane. Nucleus membrane. Endoplasmic reticulum membrane.

## Anti-Bcl-2 antibody [E17] images

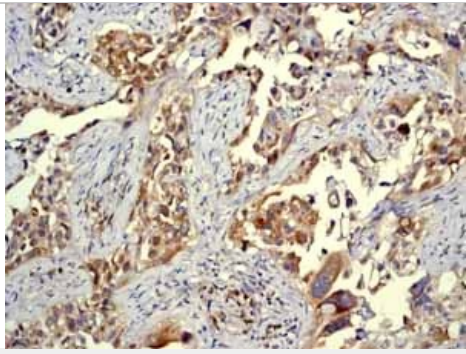


Anti-Bcl-2 antibody [E17] (ab32124) at 1/1000 dilution + Jurkat cell lysate

**Predicted band size :** 26 kDa  
**Observed band size :** 26 kDa

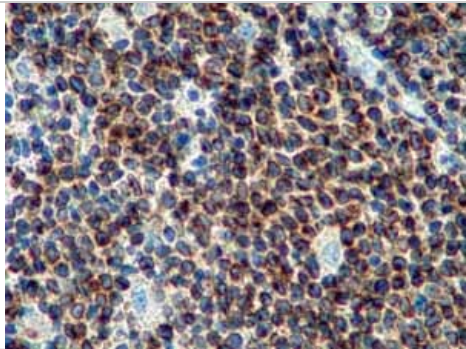


Immunohistochemical analysis of paraffin-embedded human breast carcinoma using ab32124 at 1/200 dilution. Immunohistochemical analysis of paraffin-embedded human breast carcinoma using ab32124 at 1/200 dilution.



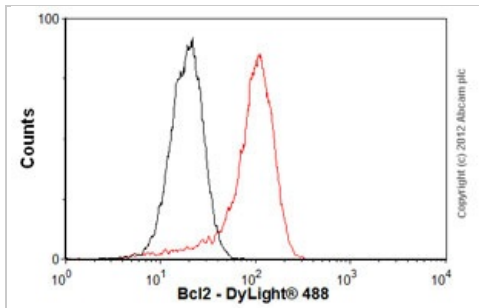
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl-2 [E17] antibody (ab32124)

ab32124 showing positive staining in Lung adenocarcinoma tissue.



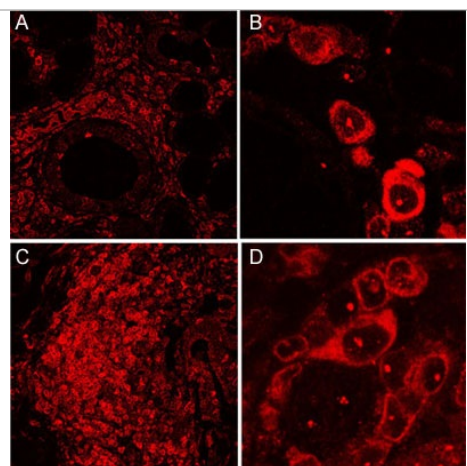
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl-2 [E17] antibody (ab32124)

ab32124 showing positive staining in B cell lymphoma tissue.



Flow Cytometry - Anti-Bcl-2 [E17] antibody (ab32124)

Overlay histogram showing Jurkat cells stained with ab32124 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab32124, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



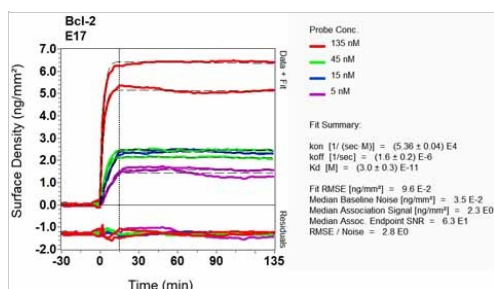
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl-2 [E17] antibody (ab32124)

Image from Szyszko EA et al., Arthritis Res Ther. 2011 Jan 7;13(1):R2. Fig 5.; doi:10.1186/ar3220; 7 January 2011, Arthritis Research & Therapy 2011, 13:R2

Immunohistochemical analysis of Human salivary glands taken from patients with primary Sjögren's syndrome, staining Bcl-2 with ab32124.

Antigen retrieval was performed via heat mediation in a citrate buffer (pH 6). Sections were blocked using 2% BSA, 10% normal serum and permeabilized with 0.5% Triton X-100. Samples were incubated with primary antibody (1/100) for one hour at room temperature. An AlexaFluor®594-conjugated anti-rabbit IgG was used as the secondary antibody.

N.B. Panels B and D are higher magnifications of panels A and C, respectively.



Other - Anti-Bcl-2 [E17] antibody (ab32124)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

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