

## Product datasheet

# Anti-Bcl-2 antibody [4D7] ab16779

4 References [画像数 1](#)

### 製品の概要

製品名	Anti-Bcl-2 antibody [4D7]
製品の詳細	Mouse monoclonal [4D7] to Bcl-2
由来種	Mouse
アプリケーション	<b>適用あり:</b> ICC, Flow Cyt, WB, IP, IHC-P
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide corresponding to Human Bcl-2 aa 61-76. Sequence: ASRDPVARTSPLQTPA  Database link: <a href="#">P10415</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
ポジティブ・コントロール	MCF7 cells or breast carcinoma or lymph node tissue.

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.1% Sodium Azide Constituents: 0.2% Gelatin, 0.05M Sodium phosphate
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	4D7
ミエローマ	Sp2/0
アイソタイプ	IgG1

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab16779** in the following tested applications.

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

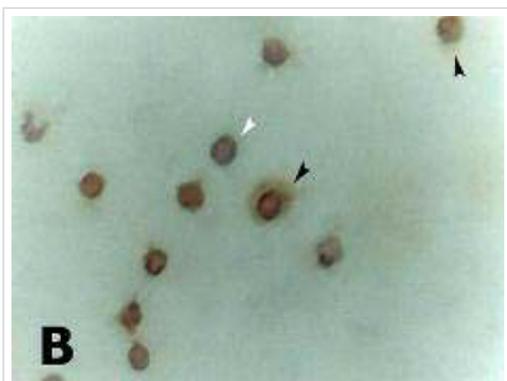
アプリケーション	Abreviews	特記事項
ICC		
Flow Cyt		
WB		
IP		
IHC-P		
<b>追加情報</b>	<p>Flow Cyt: Use at an assay dependent dilution.            ICC (IF): Use at an assay dependent dilution.            IHC-P: Use at a concentration of 1 µg/ml.            IP: Use at an assay dependent dilution.            WB: Use at a concentration of 2 µg/ml. Predicted molecular weight: 29 kDa.</p> <p>Not tested in other applications.            Optimal dilutions/concentrations should be determined by the end user.</p>	
<b>ターゲット情報</b>		
<b>機能</b>	<p>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). May attenuate inflammation by impairing NLRP1-inflammasome activation, hence CASP1 activation and IL1B release (PubMed:17418785).</p>	
<b>組織特異性</b>	<p>Expressed in a variety of tissues.</p>	
<b>関連疾患</b>	<p>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.</p>	
<b>配列類似性</b>	<p>Belongs to the Bcl-2 family.</p>	
<b>ドメイン</b>	<p>BH1 and BH2 domains are required for the interaction with BAX and for anti-apoptotic activity. The BH4 motif is required for anti-apoptotic activity and for interaction with RAF1 and EGLN3. The loop between motifs BH4 and BH3 is required for the interaction with NLRP1.</p>	
<b>翻訳後修飾</b>	<p>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, wich 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. Ubiquitinated by SCF(FBXO10),</p>	

leading to its degradation by the proteasome.

細胞内局在

Mitochondrion outer membrane. Nucleus membrane. Endoplasmic reticulum membrane.

画像



Immunocytochemistry - Anti-Bcl-2 antibody [4D7]  
(ab16779)

Image from Abdulmir AS et al., BMC Immunol. 2008  
Dec 16;9:73. Fig 1.; doi:10.1186/1471-2172-9-73; 16  
December 2008, BMC Immunology 2008, 9:73

Immunocytochemical analysis of peripheral blood lymphocytes from asthmatic patients, staining Bcl-2 with ab16779.

Cells were permeabilized for 15 minutes at room temperature in blocking buffer, 3% BSA in PBS, plus 0.1% Triton X-100 followed by blocking of nonspecific binding in blocking buffer for 1 hour at room temperature. Slides were incubated overnight with primary antibody in a humid chamber at 4°C.

Biotinylated goat anti-mouse secondary antibodies (1/400) were added and incubated in humid chamber for 1 hour at 37°C. Staining was detected using DAB.

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