

Product datasheet

Anti-Bcl-2 antibody [Bcl2/100] (FITC) ab119113

1 References

製品の概要

製品名	Anti-Bcl-2 antibody [Bcl2/100] (FITC)
製品の詳細	Mouse monoclonal [Bcl2/100] to Bcl-2 (FITC)
由来種	Mouse
標識	FITC. Ex: 493nm, Em: 528nm
アプリケーション	適用あり: Flow Cyt
種交差性	交差種: Human 交差が予測される動物種: Cow, Cat, Dog 
免疫原	Synthetic peptide corresponding to Human Bcl-2 aa 41-54. Sequence: GAAPAPGIFSSQPG Database link: P10415  Run BLAST with  Run BLAST with
ポジティブ・コントロール	Human blood cells.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C.
バッファー	Preservative: 0.1% Sodium azide Constituents: 99% PBS, 0.2% BSA BSA (high-grade protease free)
精製度	Size exclusion
特記事項 (精製)	ab119113 is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
ポリ/モノ	モノクローナル
クローン名	Bcl2/100
アイソタイプ	IgG1

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab119113** 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
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Flow Cyt

Use 20µl for 10⁶ cells.

[ab91356](#) - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能

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).

組織特異性

Expressed in a variety of tissues.

関連疾患

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.

配列類似性

Belongs to the Bcl-2 family.

ドメイン

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.

翻訳後修飾

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. Ubiquitinated by SCF(FBXO10), leading to its degradation by the proteasome.

細胞内局在

Mitochondrion outer membrane. Nucleus membrane. Endoplasmic reticulum membrane.

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