abcam

Product datasheet

Anti-Bcl-2 (phospho S70) antibody [EPR21162] - BSA and Azide free ab233694

重组 RabMAb

6 图像

概述

产品名称	Anti-Bcl-2 (phospho S70)抗体[EPR21162] - BSA and Azide free
描述	兔单克隆抗体[EPR21162] to Bcl-2 (phospho S70) - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, Dot blot, ICC/IF, IP
种属反应性	**与反应:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	ICC/IF: HeLa cells.
常规说明	ab233694 is the carrier-free version of **ab218123**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR21162
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab233694于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

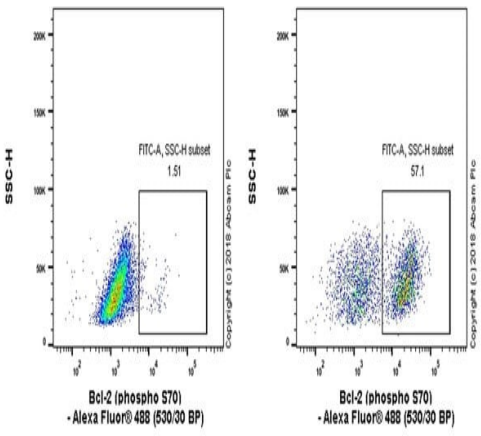
应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 26 kDa.
Dot blot		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

靶标

功能	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).
组织特异性	Expressed in a variety of tissues.
疾病相关	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.
序列相似性	Belongs to the Bcl-2 family.
结构域	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.
翻译后修饰	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), leading to its degradation by the proteasome.
细胞定位	Mitochondrion outer membrane. Nucleus membrane. Endoplasmic reticulum membrane.

图片

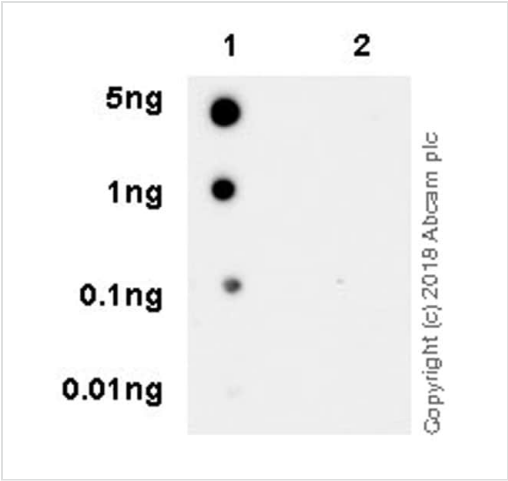


Flow Cytometry (Intracellular) - Anti-Bcl-2 (phospho S70) antibody [EPR21162] - BSA and Azide free (ab233694)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized Jurkat (human T cell leukemia T lymphocyte) treated with 1 µM paclitaxel for 24h (Right) / Untreated control (Left) cell line labeling Bcl-2 (phospho S70) with **ab218123** at 1/500 dilution. Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

Square gate shows Bcl-2 (phospho S70) positive signal. The expression profile is consistent with what has been described in the literature (PMID: 10097113)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab218123**).



Dot Blot - Anti-Bcl-2 (phospho S70) antibody [EPR21162] - BSA and Azide free (ab233694)

Dot blot analysis of Bcl-2 (phospho S70) labeled with **ab218123** at 1/1000 dilution.

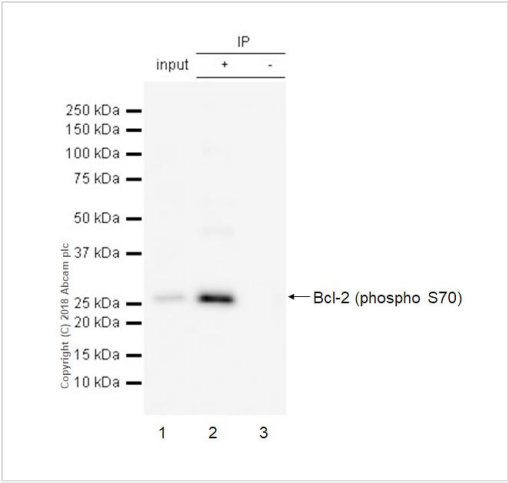
Lane 1: Bcl-2 (phospho S70) peptide.
Lane 2: Bcl-2 non-phospho peptide.

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100,000 dilution was used as secondary antibody.

Blocking and dilution buffer: 2% BSA/TBST.

Exposure time: 58 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab218123**).



Immunoprecipitation - Anti-Bcl-2 (phospho S70) antibody [EPR21162] - BSA and Azide free (ab233694)

Bcl-2 (phospho S70) was immunoprecipitated from 0.35 mg of Jurkat (human T cell leukemia cells from peripheral blood) treated with 1 µM paclitaxel for 24 hours whole cell lysate with **ab218123** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab218123** at 0.5 µg/ml. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

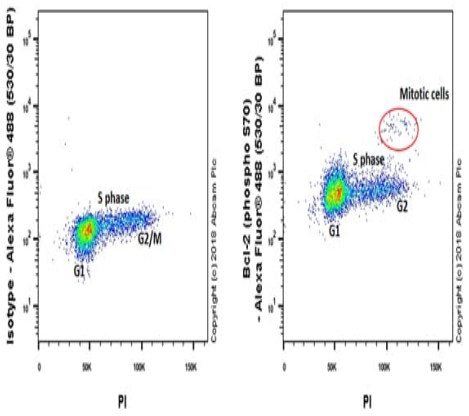
Lane 1: Jurkat treated with 1 µM paclitaxel for 24 hours whole cell lysate 10 µg (Input).

Lane 2: **ab218123** IP in Jurkat treated with 1 µM paclitaxel for 24 hours whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab218123** in Jurkat treated with 1 µM paclitaxel for 24 hours whole cell lysate.

Blocking/ Dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 15 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab218123**).



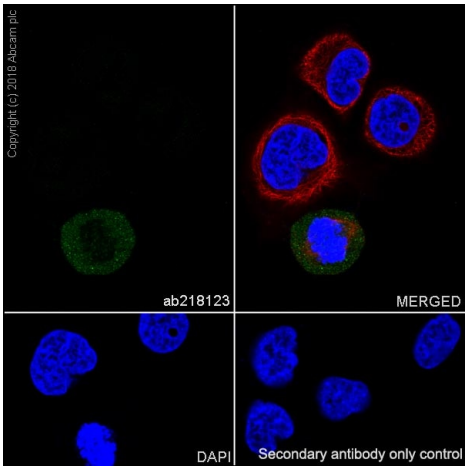
Flow Cytometry (Intracellular) - Anti-Bcl-2 (phospho S70) antibody [EPR21162] - BSA and Azide free (ab233694)

Intracellular flow cytometric analysis of 80% methanol-fixed, 0.1% Tween-20 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling Bcl-2 (phospho S70) with **ab218123** at 1/500 dilution (right panel) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (left panel). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

Cells were pretreated with 20 µg/ml RNase A for 30 minutes to eliminate the non-specific binding between RNA and propidium iodide (PI).

Bcl-2 (phospho S70) is highly expressed in mitotic cells (PMID: 10567572).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab218123**).

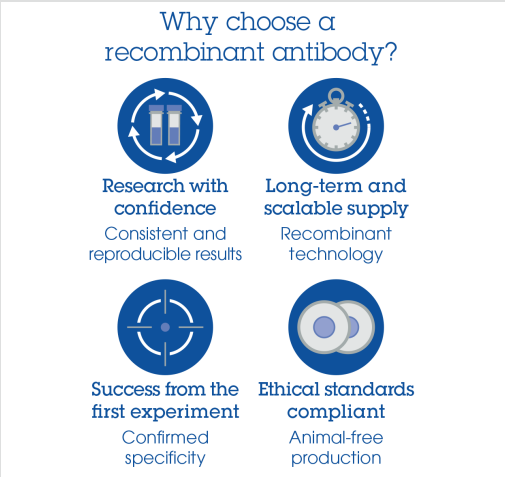


Immunocytochemistry/ Immunofluorescence - Anti-Bcl-2 (phospho S70) antibody [EPR21162] - BSA and Azide free (ab233694)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Bcl-2 (phospho S70) with **ab218123** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/100 dilution (green). Confocal image showing positive staining in HeLa cells in M phase. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab195889**) at 1/200 dilution (red). Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab218123).



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