Revision 1

Store at -20C

#98322

Pro-Apoptosis Bcl-2 Family Antibody Sampler Kit II

1 Kit (9 x 20 microliters)

Cell Signaling TECHNOLOGY®

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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Bax (D2E11) Rabbit mAb	5023	20 µl	20 kDa	Rabbit IgG
Bak (D4E4) Rabbit mAb	12105	20 µl	25 kDa	Rabbit IgG
Bok (D7V2N) Rabbit mAb	86875	20 µl	22 kDa	Rabbit IgG
Bim (C34C5) Rabbit mAb	2933	20 µl	12, 15, 23 kDa	Rabbit IgG
Bad (D24A9) Rabbit mAb	9239	20 µl	23 kDa	Rabbit IgG
BID Antibody	2002	20 µl	15, 22 kDa	Rabbit
Puma (D30C10) Rabbit mAb	12450	20 µl	23 kDa	Rabbit IgG
Noxa (D8L7U) Rabbit mAb	14766	20 µl	10 kDa	Rabbit IgG
Bik Antibody	4592	20 µl	20 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Pro-Apoptosis Bcl-2 Family Antibody Sampler Kit II provides an economical means to examine several members of the Bcl-2 family. The kit contains enough primary antibody to perform two western blot experiments.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibodies.

Background

The Bcl-2 family consists of a number of evolutionarily conserved proteins containing Bcl-2 homology domains (BH) that regulate apoptosis through control of mitochondrial membrane permeability and release of cytochrome c (1-3). Four BH domains have been identified (BH1-4) that mediate protein interactions. The family can be separated into three groups based upon function and sequence homology: pro-survival members include Bcl-2, Bcl-xL, Mcl-1, A1 and Bcl-w; pro-apoptotic proteins include Bax, Bak and Bok; and "BH3 only" proteins Bad, Bik, Bid, Puma, Bim, Bmf, Noxa and Hrk. Interactions between death-promoting and death-suppressing Bcl-2 family members has led to a rheostat model in which the ratio of pro-apoptotic and anti-apoptotic proteins controls cell fate (4). Thus, pro-survival members exert their behavior by binding to and antagonizing death-promoting members. In general, the "BH3-only members" can bind to and antagonize the pro-survival proteins leading to increased apoptosis (5). While some redundancy of this system likely exists, tissue specificity, transcriptional and post-translational regulation of many of these family members can account for distinct physiological roles.

Background References

1. Cory, S. et al. (2003) *Oncogene* 22, 8590-607.
2. Antonsson, B. and Martinou, J.C. (2000) *Exp Cell Res* 256, 50-7.
3. Sharpe, J.C. et al. (2004) *Biochim Biophys Acta* 1644, 107-13.
4. Korsmeyer, S.J. et al. (1993) *Semin Cancer Biol* 4, 327-32.
5. Bouillet, P. and Strasser, A. (2002) *J Cell Sci* 115, 1567-74.

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Limited Uses

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