Revision 1

Store at -20C

#9770

IAP Family Antibody Sampler Kit

1 Kit (5 x 20 microliters)

Cell Signaling TECHNOLOGY®

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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
c-IAP1 (D5G9) Rabbit mAb	7065	20 µl	62 kDa	Rabbit IgG
c-IAP2 (58C7) Rabbit mAb	3130	20 µl	70 kDa	Rabbit IgG
Survivin (71G4B7) Rabbit mAb	2808	20 µl	16 kDa	Rabbit IgG
XIAP (3B6) Rabbit mAb	2045	20 µl	53 kDa	Rabbit IgG
Livin (D61D1) XP® Rabbit mAb	5471	20 µl	34, 36 kDa	Rabbit IgG
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 IAP Family Antibody Sampler Kit provides an economical means to investigate the expression of various IAP family members within the cell. The kit contains enough primary and secondary antibodies 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 antibody.

Background

The inhibitor of apoptosis protein (IAP) family consists of an evolutionarily conserved group of apoptosis inhibitors containing a conserved 70 amino acid BIR (baculovirus inhibitor repeat) domain (1,2). Human members of this family include c-IAP1, c-IAP2, XIAP, survivin, livin, and NAIP. Overexpression of IAP family members, particularly survivin and livin, in cancer cell lines and primary tumors suggests an important role for these proteins in cancer progression (3-5). In general, the IAP proteins function through direct interactions to inhibit the activity of several caspases, including caspase-3, caspase-7, and caspase-9 (5,6). In addition, binding of IAP family members to the mitochondrial protein Smac blocks their interaction with caspase-9, thereby allowing the processing and activation of the caspase (2).

Background References

1. Deveraux, Q.L. and Reed, J.C. (1999) *Genes Dev* 13, 239-52.
2. Deveraux, Q.L. et al. (1998) *EMBO J* 17, 2215-23.
3. Altieri, D.C. et al. (1999) *Lab Invest* 79, 1327-33.
4. Tamm, I. et al. (2000) *Clin Cancer Res* 6, 1796-803.
5. Kasof, G.M. and Gomes, B.C. (2001) *J Biol Chem* 276, 3238-46.
6. Deveraux, Q.L. et al. (1997) *Nature* 388, 300-4.

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