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Apoptosis Antibody Sam	pler Kit	:	
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ct Includes	Product #	Quantity Mol. W	/t



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

Description	The Apoptosis Antibody Sampler Kit provides an economical means to evaluate the levels of inactive and active caspases. The kit contains enough primary and secondary antibodies to perform two Western blot experiments with each antibody.
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	Apoptosis is a regulated physiological process leading to cell death. Caspases, a family of cysteine acid proteases, are central regulators of apoptosis. Initiator caspases (including 8, 9, 10, and 12) are closely coupled to proapoptotic signals. Once activated, these caspases cleave and activate downstream effector caspases (including 3, 6, and 7), which in turn cleave cytoskeletal and nuclear proteins like PARP, α -fodrin, DFF, and lamin A and induce apoptosis. Cytochrome c released from mitochondria is coupled to the activation of caspase-9, a key initiator caspase (1). Proapoptotic stimuli include FasL, TNF- α , DNA damage and ER stress. Fas and TNFR activate caspase-8 and -10 (2), DNA damage leads to the activation of caspase-9 and ER stress leads to the calcium-mediated activation of caspase-12 (3). The inhibitor of apoptosis protein (IAP) family includes XIAP and survivin and functions by binding and inhibiting several caspases (4,5). Smac/Diablo, a mitochondrial protein, is released into the cytosol upon mitochondrial stress and competes with caspases for binding of IAPs. The interaction of Smac/Diablo with IAPs relieves the inhibitory effects of IAPs on caspases (6).
Background References	 Baker, S.J. and Reddy, E.P. (1998) Oncogene 17, 3261-3270. Budihardjo, I. et al. (1999) Annu. Rev. Cell Dev. Biol. 15, 269-290. Nakagawa, T. et al. (2000) Nature 403, 98-103. Deveraux, Q. L. et al. (1998) EMBO J. 17, 2215-2223. Li, F. et al. (1998) Nature 396, 580-584. Du, C. et al. (2000) Cell 102, 33-42.
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