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Cleaved DFF45 (Asp224) Antibody

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Applications: Rea WB	Activity: Sensitivity H Endogenou		Source: Rabbit	UniProt ID: #O00273	Entrez-Gene Id: 1676		
Product Usage Information	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliguot the antibody.					
Specificity / Sensitivity	cleavage at asparti	Cleaved DFF45 (Asp224) Antibody detects the carboxy-terminal fragment of DFF45 resulting from cleavage at aspartic acid 224. The antibody does not recognize full length DFF45 or other cleavage products of DFF45.					
Source / Purification	carboxy-terminal re	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to carboxy-terminal residues surrounding Asp224 of human DFF45. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	activated deoxyribo isoform DFF35) witi to be the target of s is believed to be the fragment (3,5). The DNA degradation by	Human DFF45 and its mouse homologue ICAD function in normal cells as chaperones for caspase- activated deoxyribonuclease (DFF40 or CAD) during its synthesis (1). The association of DFF45 (or its isoform DFF35) with DFF40 inhibits the DNAse activity of the latter (1-4). In vitro, DFF45 has been shown to be the target of several caspases, including caspase-3, -6, -7, -8 and granzyme B (3). In vivo, caspase-3 is believed to be the primary enzyme responsible for processing DFF45 and release of its carboxy-terminal fragment (3,5). The cleavage of DFF45 inactivates its inhibitory function on DFF40 and causes nuclear DNA degradation by DFF40, leading to cell death (6,7). (This product is sold under license from Promega Corp., U.S. Patent No. 6,350,452.)					
Background Reference	2. Sakahira, H. et a 3. Wolf, B. B. et al. 4. Gu, J. et al. (199 5. Tang, D. and Kid 6. Liu, X. et al. (199	 Enari, M. et al. (1998) Nature 391, 43-50. Sakahira, H. et al. (1998) Nature 391, 96-99. Wolf, B. B. et al. (1999) J. Biol. Chem. 274, 30651-30656. Gu, J. et al. (1999) J. Biol. Chem. 274, 20759-20762. Tang, D. and Kidd, V.J. (1998) J. Biol. Chem. 273, 28549-28552. Liu, X. et al. (1999) J. Biol. Chem. 274, 13836-13840. Zhang, J. et al. (1999) J. Biol. Chem. 274, 37450-37454. 					
Species Reactivity	Species reactivity is	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB: Western Blotti	WB: Western Blotting					
Cross-Reactivity Key	X: Xenopus Z: zebra	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 					
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Cleaved DFF45 (Asp224) Antibody (#9731) Datasheet Without Images Cell Signaling Technology

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