#9541 Store at -20C

Cleaved PARP (Asp214) Antibody



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Applications: WB, W-S	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 89	Source: Rabbit	UniProt ID: #P09874	Entrez-Gene Id: 142	
Product Usage Information	Ap	Application			Dilution		
	We	Western Blotting			1:1000		
	Sir	nple Western™		1:10 - 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	prod	Cleaved PARP (Asp214) Antibody detects endogenous levels of the large fragment (89 kDa) of PARP1 produced by caspase cleavage. The antibody does not recognize full length PARP1 or other PARP isoforms.					
Source / Purificat	volonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to boxy-terminal residues surrounding Asp214 in human PARP. Antibodies are purified by protein A and tide affinity chromatography.						
Background	to e one Asp cark	PARP, a 116 kDa nuclear poly (ADP-ribose) polymerase, appears to be involved in DNA repair in response to environmental stress (1). This protein can be cleaved by many ICE-like caspases <i>in vitro</i> (2,3) and is one of the main cleavage targets of caspase-3 <i>in vivo</i> (4,5). In human PARP, the cleavage occurs between Asp214 and Gly215, which separates the PARP amino-terminal DNA-binding domain (24 kDa) from the carboxy-terminal catalytic domain (89 kDa) (2,4). PARP helps cells to maintain their viability; cleavage of PARP facilitates cellular disassembly and serves as a marker of cells undergoing apoptosis (6).					
	(Thi	(This product is sold under license from Promega Corp., U.S. Patent No. 6,350,452.)					
Background Refe	2. L 3. C 4. N 5. Ti	 Satoh, M.S. and Lindahl, T. (1992) Nature 356, 356-358. Lazebnik, Y. A. et al. (1994) Nature 371, 346-347. Cohen, G.M. (1997) Biochem. J. 326, 1-16. Nicholson, D. W. et al. (1995) Nature 376, 37-43. Tewari, M. et al. (1995) Cell 81, 801-809. Oliver, F.J. et al. (1998) J. Biol. Chem. 273, 33533-33539. 					

Species Reactivity

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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **W-S:** Simple Western[™]

Cross-Reactivity Key

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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