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#9544

Cleaved PARP (Asp214) Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 89	Source/Isotype: Rabbit	UniProt ID: #P11103	Entrez-Gene Id: 11545
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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 aliquot the antibody.	
Specificity/Sensitivity	Cleaved PARP (Asp214) Antibody detects endogenous levels of the large fragment (89 kDa) of PARP1 resulting from caspase cleavage. The antibody does not recognize full length PARP1 or other PARP isoforms.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to carboxy-terminal residues surrounding Asp214 in mouse PARP. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	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). (This product is sold under license from Promega Corp., U.S. Patent No. 6,350,452.)	
Background References	<ol style="list-style-type: none"> 1. Satoh, M.S. and Lindahl, T. (1992) <i>Nature</i> 356, 356-358. 2. Lazebnik, Y. A. et al. (1994) <i>Nature</i> 371, 346-347. 3. Cohen, G.M. (1997) <i>Biochem. J.</i> 326, 1-16. 4. Nicholson, D. W. et al. (1995) <i>Nature</i> 376, 37-43. 5. Tewari, M. et al. (1995) <i>Cell</i> 81, 801-809. 6. Oliver, F.J. et al. (1998) <i>J. Biol. Chem.</i> 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	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse
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