Cleaved PARP (Asp214) (19F4) Mouse mAb 976#



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 89	Source/Isotype: Mouse IgG1	UniProt ID: #P09874	Entrez-Gene Id: 142	
Product Usage Information	2	ApplicationDilutionWestern Blotting1:2000					
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.					
Specificity/Ser	sitivity	Cleaved PARP (Asp214) (19F4) Mouse mAb (Human Specific) detects endogenous levels of the large fragment (89 kDa) of PARP1 resulting from cleavage at aspartic acid 214. This antibody will detect high levels of full length PARP.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic PARP peptide corresponding to carboxy-terminal residues surrounding Asp214 in human PARP.					
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 1. Satoh, M.S. and Lindahl, T. (1992) Nature 356, 356-358. 2. Lazebnik, Y. A. et al. (1994) Nature 371, 346-347. 3. Cohen, G.M. (1997) Biochem. J. 326, 1-16. 4. Nicholson, D. W. et al. (1995) Nature 376, 37-43. 5. Tewari, M. et al. (1995) Cell/81, 801-809. 6. Oliver, F.J. et al. (1998) J. Biol. Chem. 273, 33533-33539.							
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot E	Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nor dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				ר 5% w/v nonfat		
Applications K	ey	W: Western Blotting					
Cross-Reactivi	ty Key	H: Human Mk: Monkey					
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