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Cleaved PARP (Asp214) (D64E10) XP[®] Rabbit mAb (Sepharose[®] Bead Conjugate)

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IP	H Mk	Endogenous	89	Rabbit IgG	#P09874	142

Product Usage Information	Application	Dilution
	Immunoprecipitation	1:20
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity/Sensitivity	Cleaved PARP (Asp214) (D64E10) XP [®] Rabbit mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of the large fragment (89 kDa) of human PARP1 protein produced by caspase cleavage. The antibody does not recognize full length PARP1 or other PARP isoforms.	
Source / Purification	Monoclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp214 of human PARP protein.	
Description	This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose [®] beads. Cleaved PARP (Asp214) (D64E10) XP [®] Rabbit mAb (Sepharose [®] Bead Conjugate) is useful for immunoprecipitation assays. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cleaved PARP (Asp214) (D64E10) XP [®] Rabbit mAb #5625.	
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).	
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).
Applications Key	IP: Immunoprecipitation
Cross-Reactivity Key	H: Human Mk: Monkey
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