Store at -200

PARP Antibody



Orders: 877-616-CELL (2355)

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cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 89, 116	Source: Rabbit	UniProt ID: #P09874	Entrez-Gene Id: 142	
Product Usage Information	Ap	plication			Dilution		
	We	Western Blotting			1:1000		
	Sin	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 / Sensitivity		PARP Antibody detects endogenous levels of full length PARP1 (116 kDa), as well as the large fragment (89 kDa) of PARP1 resulting from caspase cleavage. The antibody does not cross-react with related proteins or other PARP isoforms.					
Source / Purificat	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the caspase cleavage site in PARP. Antibodies are purified by protein A and peptide affinity chromatograph						
Background	to e one Asp carb	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).					
 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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PARP Antibody (#9542) Datasheet Without Images Cell Signaling Technology

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