

32563

Cleaved-PARP (Asp214) (E2T4K) Mouse



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IHC-P, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 89	Source/Isotype: Mouse IgG1	UniProt ID: #P09874	Entrez-Gene Id: 142
Product Usage Information		Application			Dilution	
		Western Blotting			1:1	000
		Immunoprecipitation			1:1	
		Immunohistochemist	,		1:5	
		Immunofluorescence (Immunocytochemistry)			1:100 - 1:400	
		Flow Cytometry (Fixed	d/Permeabilized)		1:1	00 - 1:400
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/Sensitivity		Cleaved PARP (Asp214) (E2T4K) Mouse mAb recognizes endogenous levels of the large fragment (89 kDa) of human PARP1 protein produced by caspase cleavage. This antibody does not recognize full-length PARP1 or other PARP isoforms.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp214 of human PARP protein.				
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		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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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