## Cleaved PARP (Asp214) (D64E10) XP<sup>®</sup> Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



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

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

<b>Applications:</b> IF-IC, FC-FP	Reactivity: H Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P09874	Entrez-Gene Id: 142	
Product Usage Information		<b>Application</b> Immunofluorescence (Ir	•		<b>Dilution</b> 1:100 1:50	
Storage	,					
Specificity/Sensitivity		Cleaved PARP (Asp214) (D64E10) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 647 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 in human PARP protein.				
<b>Description</b> This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 647 fluorescent dy in-house for direct flow cytometry analysis in human cells. The antibody is expected to especies cross-reactivity as the unconjugated Cleaved PARP (Asp214) (D64E10) XP <sup>®</sup> Rabbi				dy is expected to exhibit the same		
Background		response to environmen (2,3) and is one of the m occurs between Asp214 (24 kDa) from the carbox	tal stress (1). This proteir ain cleavage targets of ca and Gly215, which separa cy-terminal catalytic dom	ly (ADP-ribose) polymerase, appears to be involved in DNA repair in stress (1). This protein can be cleaved by many ICE-like caspases <i>in vitro</i> a cleavage targets of caspase-3 <i>in vivo</i> (4,5). In human PARP, the cleavage d Gly215, which separates the PARP amino-terminal DNA-binding domain terminal catalytic domain (89 kDa) (2,4). PARP helps cells to maintain their facilitates cellular disassembly and serves as a marker of cells undergoing		
Background Refe	erences	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** 

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human Mk: Monkey

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