## Cleaved PARP (Asp214) (D64E10) XP® Rabbit mAb



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

Applications: F VB, W-S, IP, IHC-P, IF- IC, FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 89	Source/Isotype: Rabbit IgG	UniProt ID: #P09874	Entrez-Gene Id: 142	
Product Usage Information	Ар	plication		Dilution			
	We	Western Blotting				1:1000	
	Sin	nple Western™			1:1	0 - 1:50	
	Imr	munoprecipitation			1:1	00	
	Imr	Immunohistochemistry (Paraffin)				1:50	
	Imr	munofluorescence (	(Immunocytochen	1:400			
	Flo	w Cytometry (Fixed	d/Permeabilized)		1:200 - 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier-free (BSA and azide free) version of this product see product #95696.					
Specificity / Sensitivi	kDa	Cleaved PARP (Asp214) (D64E10) XP <sup>®</sup> Rabbit mAb 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 residues surrounding Asp214 in human PARP.				corresponding to	
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).					
Background Referen	2. La 3. C 4. N 5. Te	<ol> <li>Satoh, M.S. and Lindahl, T. (1992) Nature 356, 356-358.</li> <li>Lazebnik, Y. A. et al. (1994) Nature 371, 346-347.</li> <li>Cohen, G.M. (1997) Biochem. J. 326, 1-16.</li> <li>Nicholson, D. W. et al. (1995) Nature 376, 37-43.</li> <li>Tewari, M. et al. (1995) Cell 81, 801-809.</li> <li>Oliver, F.J. et al. (1998) J. Biol. Chem. 273, 33533-33539.</li> </ol>					

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** WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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