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#94885**Cleaved PARP (Asp214) (D6X6X) Rabbit mAb**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P, IF-IC, FC-FP	M R	Endogenous	89	Rabbit IgG	#P11103	11545

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:100
	Immunohistochemistry (Paraffin)	1:100
	Immunofluorescence (Immunocytochemistry)	1:800
	Flow Cytometry (Fixed/Permeabilized)	1:100
<b>Storage</b>	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.	
	For a carrier free (BSA and azide free) version of this product see product #96256.	
<b>Specificity/Sensitivity</b>	Cleaved PARP (Asp214) (D6X6X) Rabbit mAb recognizes endogenous levels of the large fragment (89 kDa) of PARP protein only when cleaved at Asp214.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp214 of rodent PARP1 protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Satoh, M.S. and Lindahl, T. (1992) <i>Nature</i> 356, 356-358.</li> <li>2. Lazebnik, Y. A. et al. (1994) <i>Nature</i> 371, 346-347.</li> <li>3. Cohen, G.M. (1997) <i>Biochem. J.</i> 326, 1-16.</li> <li>4. Nicholson, D. W. et al. (1995) <i>Nature</i> 376, 37-43.</li> <li>5. Tewari, M. et al. (1995) <i>Cell</i> 81, 801-809.</li> <li>6. Oliver, F.J. et al. (1998) <i>J. Biol. Chem.</i> 273, 33533-33539.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	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.	
<b>Applications Key</b>	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)	
<b>Cross-Reactivity Key</b>	<b>M:</b> Mouse <b>R:</b> Rat	
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