

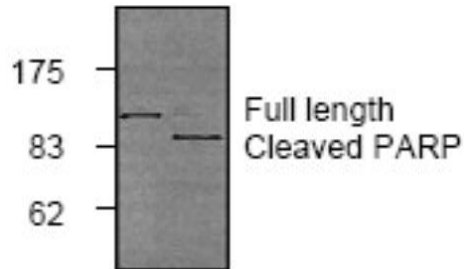
Mouse Anti-Multispecies PARP Clone C-2-10 mAb

Catalog No.	CMP134	Quantity:	100 µg
Alternate Names:	Poly (ADP-Ribose) Polymerase 1, PARP1, ADPRT, ADPRT1, PARP-1, PPOL		
Description:	<p>Mouse Anti-Multispecies PARP Clone C-2-10 monoclonal antibody. PARP is a 116 kDa, highly conserved nuclear enzyme present in higher eukaryotes. The enzyme is a Zn²⁺-dependent DNA binding protein that recognizes DNA strand breaks and is implicated in DNA repair and in apoptosis responses of cells. This protein can be cleaved by many caspases <i>in vitro</i> and is one of the main cleavage targets of caspase 3 <i>in vivo</i>. The cleavage occurs between ASP214 and Gly 215, which separates PARP's N-terminal DNA binding domain (24 kDa) from its C-terminal catalytic domain (89 kDa). It has been shown that cleavage of PARP facilitates cellular disassembly and inhibition of PARP cleavage attenuates apoptosis <i>in vitro</i>.</p>		
Concentration:	0.2 mg/ml		
Specificity:	Recognizes the full length (116 kDa) and the apoptosis-related cleavage fragment (85 kDa) of PARP.		
Host:	Mouse		
Immunogen:	Purified calf thymus PARP		
Isotype:	IgG1		
Clone:	C-2-10		
Formulation:	Liquid in PBS + 0.5% BSA + 0.05% thimerosal. Precaution: Thimerosal is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	Protein A purified		
Cross-Reactivity:	Human, mouse, rat, monkey, and hamster		
Applications:	Western Blot Immunocytochemistry		
Application Notes:	<p>For Western blotting, sonication and urea are necessary to break up PARP/DNA interactions. To do this, resuspend cells in 62.5 mM Tris-HCl, pH 6.8 + 6 M urea + 10% glycerol + 2% SDS + 0.00125% bromophenol blue + 5% β-mercaptoethanol. Sonicate for 15 seconds on full power and incubate at 65°C for 15 minutes. Then follow standard Western blotting procedures. Untreated cells should show only full-length PARP, while treated cells will show both cleaved and full-length PARP. For Western Blot, use a working dilution of 1-4 µg/ml.</p> <p>The optimal concentration should be determined by the user for each specific application.</p>		



Storage & Stability: Store at -20°C or in working aliquots at -80°C for long term storage. **Avoid repeated freeze-thaw cycles.**

Western Blot analysis of PARP in Jurkat cells treated with (Right lane) or without (Left lane) camptothecin.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.