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Product Data Sheet

Purified anti-PARP

Catalog # / Size:	614301 / 25 μg 614302 / 100 μg
Clone:	5A5
Isotype:	Mouse IgG1, κ
Immunogen:	Recombinant (partial), N-terminal 2/3 sequence of PARP
Reactivity:	Mouse, Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.
Concentration:	0.5 mg/ml
Storage:	Upon receipt, store undiluted at 4°C.

Applications:

Applications: IF, WB

Recommended Usage:	Each lot of this antibody is quality control tested by Western blotting. Western
-	blotting, suggested working dilution(s): Use 5 µg antibody per 5 ml antibody
	dilution buffer for each mini-gel. It is recommended that the reagent be
	titrated for optimal performance for each application.

Application References: 1. Bogiatzi SI, et al. 2012. J Allergy Clin Immunol. 130:233. PubMed.

Description: PARP (Poly (ADP-ribose) polymerase) is a 113 kD nuclear protein that can exist as a homo- or hetero-dimer. This protein acts as a molecular "nick sensor" and functions in base excision repair, poly(ADP-ribosyl)ation of acceptor proteins involved in chromatin architecture and DNA metabolism and participates in protein modification to enhance or repress transcription. PARP is ribosylated by PARP2 and is a target for caspase cleavage during apoptosis. PARP interacts with proteins in the base excision repair complex containing at least XRCC1, PARP2, POLB and LIG3. In addition PARP forms heterodimers with PARP2, and interacts with PARP3. The 5A5 monoclonal antibody recognizes the N-terminal region of human and mouse PARP and has been shown to be useful for Western blotting and immunofluorescence staining.

 I. Berninger References: 1. Onemoly D, et al. 1990. J. Biol. Chem. 265:21907. Ikejima M, et al. 2001. P. Natl. Acad. Sci. USA 98:12: 4. Noel G, et al. 2003. BMC Cell Biol. 4:7 	227.
4. Noel G, et al. 2003. BMC Cell Biol. 4:7.	

Related Products: Product	Clone	Application
Purified anti-human CD95 (FAS)	DX2	FĊ, IF, IHC
Purified anti-human CD95 (FAS)	EOS9.1	FC
HRP Goat anti-mouse IgG (minimal	Poly4053	ELISA, IHC
x-reactivity)		WB
Biotin anti-Caspase-3	4-1-18	WB
Purified anti-Caspase-3	4-1-18	WB



Hela cell lysate was resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-PARP antibody. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence system.



Hela cells were stained with PE anti-PARP antibody and DAPI. The image shows nucléar localization of PARP.



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