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Datasheet for ABIN7127667 Recombinant anti-PARP1 antibody

5 Images



Overview

Quantity:	100 µL
Target:	PARP1
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This PARP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Immunogen:	A synthesized peptide derived from human PARP
Clone:	8C7
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography
Target Details	
Targat:	

Target:	PARP1
Alternative Name:	PARP1 (PARP1 Products)

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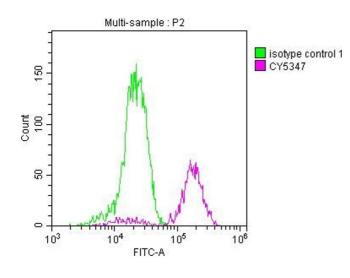
Target Details	
Background:	Background: Involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-
	ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in
	DNA metabolism. This modification follows DNA damages and appears as an obligatory step in
	a detection/signaling pathway leading to the reparation of DNA strand breaks
	(PubMed:17177976, PubMed:18172500, PubMed:19344625, PubMed:19661379,
	PubMed:23230272). Mediates the poly(ADP-ribosyl)ation of APLF and CHFR
	(PubMed:17396150). Positively regulates the transcription of MTUS1 and negatively regulates
	the transcription of MTUS2/TIP150. With EEF1A1 and TXK, forms a complex that acts as a T- $$
	helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to
	directly regulate its transcription, and is thus involved importantly in Th1 cytokine production
	(PubMed:17177976). Required for PARP9 and DTX3L recruitment to DNA damage sites
	(PubMed:23230272). PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the
	rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage
	sites (PubMed:23230272). Mediates serine ADP-ribosylation of target proteins following
	interaction with HPF1, HPF1 conferring serine specificity (PubMed:28190768). Mediates the
	poly(ADP-ribosyl)ation of histones in a HPF1-dependent manner (PubMed:27067600). Involved
	in the synthesis of ATP in the nucleus, together with NMNAT1, PARG and NUDT5
	(PubMed:27257257). Nuclear ATP generation is required for extensive chromatin remodeling
	events that are energy-consuming (PubMed:27257257).
	Aliases: Poly [ADP-ribose] polymerase 1 (PARP-1) (EC 2.4.2.30) (ADP-ribosyltransferase
	diphtheria toxin-like 1) (ARTD1) (NAD(+) ADP-ribosyltransferase 1) (ADPRT 1) (Poly[ADP-ribose]
	synthase 1), PARP1, ADPRT PPOL
UniProt:	P09874
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, DNA Damage Repair, Production of Molecular
	Mediator of Immune Response, Maintenance of Protein Location
Application Details	
Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200, FC:1:20-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %

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Handling

	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images

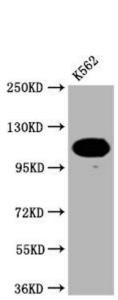


Flow Cytometry

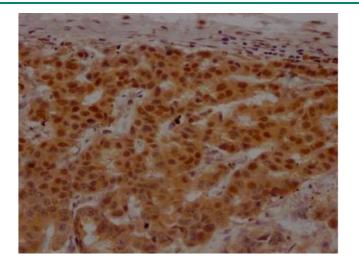
Image 1. Overlay histogram showing Jurkat cells stained with ABIN7127667 (red line) at 1:50. The cells were fixed with 70 % Ethylalcohol (18h) and then incubated in 10 % normal goat serum to block non-specific protein-protein interactions followedby the antibody (1 μ g/1*106cells) for 1 h at 4 °C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30 min at 4 °C. Control antibody (green line) was Rabbit IgG (1 μ g/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.

Western Blotting

Image 2. Western Blot Positive WB detected in: K562 whole cell lysate All lanes: PARP antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 114 KDa Observed band size: 114 kDa



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Immunohistochemistry

Image 3. IHC image of ABIN7127667 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.

Please check the product details page for more images. Overall 5 images are available for ABIN7127667.