

For Research Use Only

CoraLite® Plus 647-conjugated PARP1 Polyclonal antibody



Catalog Number:CL647-13371

Basic Information

Catalog Number: CL647-13371	GenBank Accession Number: BC037545	Purification Method: Antigen affinity purification
Size: 1000 µg/ml	GeneID (NCBI): 142	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Source: Rabbit	UNIPROT ID: P09874	
Isotype: IgG	Full Name: poly (ADP-ribose) polymerase 1	
Immunogen Catalog Number: AG4193	Calculated MW: 1014 aa, 113 kDa	
	Observed MW: 113-116 kDa, 89 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
human, mouse, rat

Background Information

PARP1 (poly(ADP-ribose) polymerase 1) is a nuclear enzyme catalyzing the poly(ADP-ribosyl)ation of many key proteins in vivo. The normal function of PARP1 is the routine repair of DNA damage. Activated by DNA strand breaks, the PARP1 is cleaved into an 85 to 89-kDa COOH-terminal fragment and a 24-kDa NH₂-terminal peptide by caspases during the apoptotic process. The appearance of PARP fragments is commonly considered as an important biomarker of apoptosis. In addition to caspases, other proteases like calpains, cathepsins, granzymes and matrix metalloproteinases (MMPs) have also been reported to cleave PARP1 and gave rise to fragments ranging from 42-89-kDa. This antibody was generated against the C-terminal region of human PARP1 and it recognizes the full-length as well as the cleavage of the PARP1.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

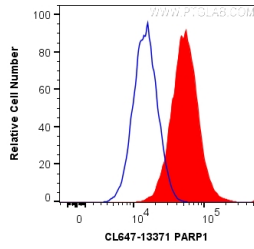
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ HeLa cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human PARP1 (CL647-13371) (red), or 0.2 ug isotype control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).