

For Research Use Only

# CoraLite® Plus 488-conjugated PARP1 Recombinant antibody

Catalog Number:CL488-80174



## Basic Information

Catalog Number: CL488-80174	GenBank Accession Number: BC037545	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 142	CloneNo.: 3N19
Source: Rabbit	UNIPROT ID: P09874	Recommended Dilutions: IF-P 1:50-1:500
Isotype: IgG	Full Name: poly (ADP-ribose) polymerase 1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG4193	Calculated MW: 1014 aa, 113 kDa	
	Observed MW: 113-116, 89 kDa	

## Applications

Tested Applications: IF-P	Positive Controls: IF-P : mouse testis tissue,
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.

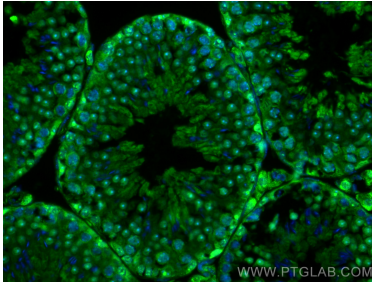
## Storage

**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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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using CoraLite® Plus 488 PARP1 antibody (CL488-80174, Clone: 3N19) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).