

Anti-PARP/PARP1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9309-Fluoro488

About PARP1

Poly [ADP-ribose] polymerase 1 (PARP1), also known as ADPRT or PPOL is an enzyme that in humans is encoded by the PARP1 gene. PARP1 gene is mapped to 1q42.12. This gene encodes a chromatin-associated enzyme, poly (ADP-ribosyl)transferase, which modifies various nuclear proteins by poly (ADP-ribosyl)ation. The modification is dependent on DNA and is involved in the regulation of various important cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. In addition, this enzyme may be the site of mutation in Fanconi anemia, and may participate in the pathophysiology of type I diabetes.

Overview

Product Name	Anti-PARP/PARP1 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P09874

Technical Details

Immunogen	E.coli-derived human PARP recombinant protein (Position: Q670-R858). Human PARP shares 94% and 95% amino acid (aa) sequence identity with mouse and rat PARP, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

5 Publications Citing This Product

1. PubMed ID: 10.1111/jdi.13534, CIDEc silencing attenuates diabetic nephropathy via inhibiting apoptosis and promoting autophagy
2. PubMed ID: , Downregulation of tyrosine aminotransferase at a frequently deleted region 16q22 contributes to the pathogenesis of hepatocellular carcinoma
3. PubMed ID: 33281970, Wang P,Wang C,Liu C. Antitumor effects of dioscin in A431 cells via adjusting ATM/p53-mediated cell apoptosis, DNA damage and migration. Oncol Lett. 2021 Jan;21(1):59.doi:10.3892/ol.2020.12321.Epub 2020 Nov 19.PMID:33281970;PMCID:PMC7709553.

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