

PARP1 monoclonal antibody, clone A6.4.12

Catalog # MAB5193

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against PARP1.
Immunogen	Human PARP.
Host	Mouse
Reactivity	Human
Specificity	This antibody recognizes poly (ADP-ribose) polymerase (PARP), a 116kD nuclear enzyme that has been shown to be cleaved during apoptosis.
Form	Liquid
Isotype	IgG
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PARP1

Entrez GeneID	142
Gene Name	PARP1
Gene Alias	ADPRT, ADPRT1, PARP, PARP-1, PPOL, pADPRT-1
Gene Description	poly (ADP-ribose) polymerase 1
Omim ID	173870
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase) ADP-ribosyltransferase NAD(+) OTTHUMP00000035663 poly (ADP-ribose) polymerase family, member 1 poly(ADP-ribose) polymerase poly(ADP-ribose) synthetase poly(ADP-ribosyl)transferase

Publication Reference

- [Biological and clinical significance of PARP1 protein expression in breast cancer.](#)

Green AR, Caracappa D, Benhasouna AA, Alshareeda A, Nolan CC, Macmillan RD, Madhusudan S, Ellis IO, Rakha EA. Breast Cancer Research and Treatment 2015 Jan; 149(2):353.

Application: IHC-P, Human, Breast

- [Poly\(adenosine diphosphate-ribose\) polymerase expression in BRCA-proficient ovarian high-grade serous carcinoma; association with patient survival.](#)

Gan A, Green AR, Nolan CC, Martin S, Deen S.

Human Pathology 2013 Aug; 44(8):1638.

Application: IHC-P, Human, Breast, Ovarian cancer TMA sections

Pathway

- [Base excision repair](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenomyoma](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Ataxia telangiectasia](#)
- [Brain Injuries](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Diabetic Neuropathies](#)
- [Disease Progression](#)

- [DNA Damage](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Graft vs Host Disease](#)
- [Helicobacter Infections](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meniere Disease](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Meningococcal Infections](#)
- [Micronuclei](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Neuroma](#)

- [Neutropenia](#)
- [Otitis Media](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Papillomavirus Infections](#)
- [Parkinson disease](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Werner syndrome](#)