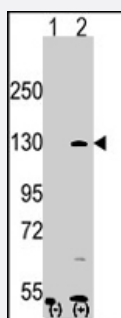


PARP1 polyclonal antibody

Catalog # PAB4469

Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of PARP1 (arrow) using rabbit PARP1 polyclonal antibody (Cat # PAB4469). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PARP1 gene (Lane 2) (Origene Technologies).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PARP1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PARP1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	ELISA (1:1000) Western Blot (1:50-100) 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 (Transfected lysate)

Western blot analysis of PARP1 (arrow) using rabbit PARP1 polyclonal antibody (Cat # PAB4469). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PARP1 gene (Lane 2) (Origene Technologies).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PARP1

Entrez GeneID [142](#)

Protein Accession# [NP_001609:P09874](#)

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

- [Domain C of human poly\(ADP-ribose\) polymerase-1 is important for enzyme activity and contains a novel zinc-ribbon motif.](#)

Tao Z, Gao P, Hoffman DW, Liu HW.

Biochemistry 2008 May; 47(21):5804.

- [Ethnic disparities in Americans of European descent versus Americans of African descent related to polymorphic ERCC1, ERCC2, XRCC1, and PARP1.](#)

Gao R, Price DK, Sissung T, Reed E, Figg WD.

Molecular Cancer Therapeutics 2008 May; 7(5):1246.

- [The human poly\(ADP-ribose\) polymerase nuclear localization signal is a bipartite element functionally separate from DNA binding and catalytic activity.](#)

Schreiber V, Molinete M, Boeuf H, de Murcia G, Menissier-de Murcia J.

The EMBO Journal 1992 Sep; 11(9):3263.

Application: IF, Human, HeLa cells

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](#)