PARP1 antibody

Catalog No: #38592

Package Size: #38592-1 50ul #38592-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

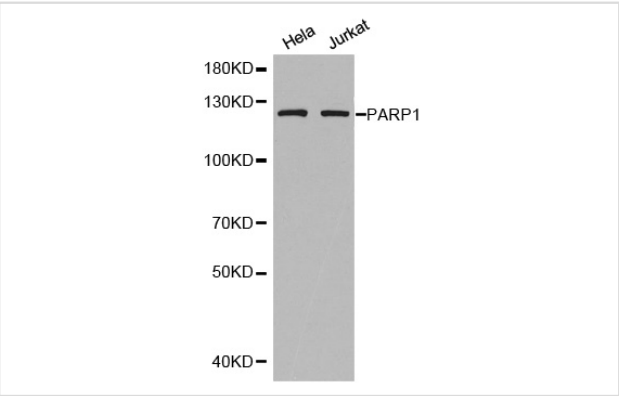
Description

Product Name	PARP1 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Human;Mouse
Specificity	The antibody detects endogenous level of total PARP1 protein.
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from human PARP-1
Conjugates	Unconjugated
Target Name	PARP1
Other Names	ADPRT; ADPRT1; PARP; PARP-1; PPOL; pADPRT-1;
Accession No.	Swiss-Prot#: P09874NCBI Gene ID: 142
SDS-PAGE MW	113kd
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C

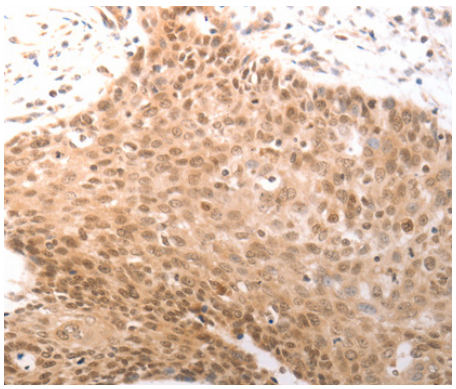
Application Details

WB 1:500-1:2000; IHC 1:50-1:200; IF 1:50-1:200;

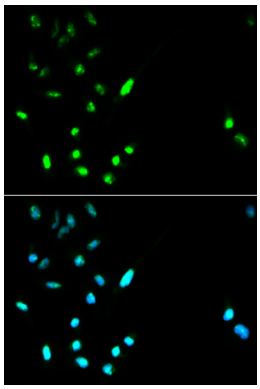
Images



Western blot analysis of extracts of various cell lines, using PARP1 antibody.



Immunohistochemistry analysis of paraffin-embedded human cervical cancer tissue, using PARP1 antibody.



Immunofluorescence analysis of A549 cell using PARP1 antibody. Blue: DAPI for nuclear staining.

Background

PARP, a 116 kDa nuclear poly (ADP-ribose) polymerase, appears to be involved in DNA repair in response to environmental stress (1). This protein can be cleaved by many ICE-like caspases in vitro (2,3) and is one of the main cleavage targets of caspase-3 in vivo (4,5). In human PARP, the cleavage occurs between Asp214 and Gly215, which separates the PARP amino-terminal DNA binding domain (24 kDa) from the carboxy-terminal catalytic domain (89 kDa) (2,4). PARP helps cells to maintain their viability; cleavage of PARP facilitates cellular disassembly and serves as a marker of cells undergoing apoptosis (6).

Published Papers

el at., Anticancer activity and mechanism investigation of beauvericin isolated from secondary metabolites of the mangrove endophytic fungi.In Anticancer Agents Med Chem on 2015 by Yi-wen Tao, Yong-cheng Lin et al..PMID:25641103

, , (2015)

PMID:25641103

el at., Bruceine D induces apoptosis in human chronic myeloid leukemia K562 cells via mitochondrial pathway.In Am J Cancer Res on 2016 Mar 15 by Jian-Ye Zhang, Min-Ting Lin et al..PMID: 27186433, , (2016)

PMID:27186433

Note: This product is for in vitro research use only and is not intended for use in humans or animals.