

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	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total PARP1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PARP1.
Target Name	PARP1
Other Names	ADPRT; ADPRT1; PARP; PARP-1; PPOL; pADPRT-1;
Accession No.	Swiss-Prot#: P09874NCBI Gene ID: 142
Uniprot	P09874
GeneID	142;
SDS-PAGE MW	113kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

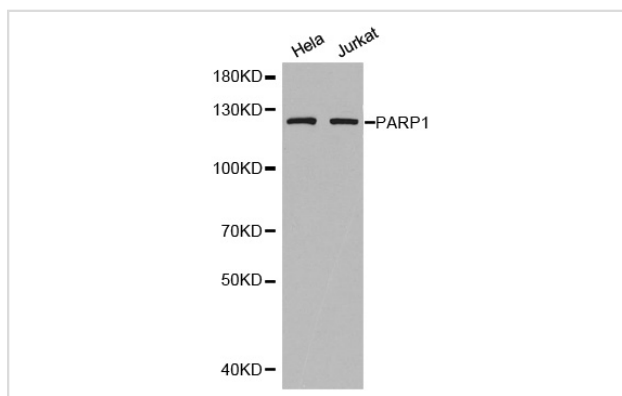
Application Details

Western blotting: □1:500 - 1:1000

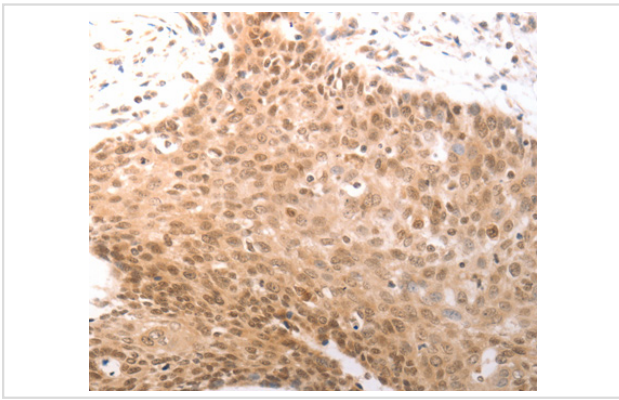
Immunohistochemistry: □1:50 - 1:100

Immunofluorescence: □1:50 - 1:100

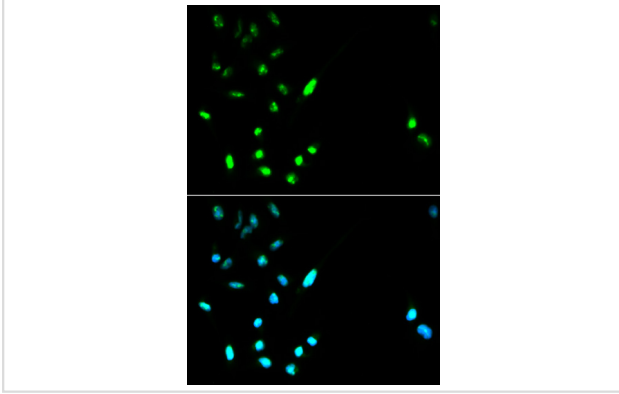
Images



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).

Note: This product is for in vitro research use only