

For Research Use Only

PARP3 Polyclonal antibody

Catalog Number: 11289-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

11289-1-AP

Size:

150ul, Concentration: 280 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1844

GenBank Accession Number:

BC014260

GeneID (NCBI):

10039

UNIPROT ID:

Q9Y6F1

Full Name:

poly (ADP-ribose) polymerase family, member 3

Calculated MW:

60 kDa

Observed MW:

60-62 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse heart tissue, human heart tissue, human kidney tissue, rat heart tissue, mouse kidney tissue

IHC : human breast cancer tissue, human pancreas cancer tissue, human renal cell carcinoma tissue

IF/ICC : Hela cells,

Background Information

PARP3 (Poly(ADP-ribose) polymerase 3), also known as ARTD3, is the third member of the PARP family that catalyze a post-translational modification of proteins to promote, control or adjust numerous cellular events including genome integrity, transcription, differentiation, cell metabolism or cell death (PMID: 31095444). PARP3 is a 60-kDa protein containing an N-terminal WGR (tryptophan-, glycine-, and arginine-rich) domain and a C-terminal catalytic domain. PARP3 has been described to interact with partners belonging to the NHEJ pathway including DNA-PKcs, DNA ligase IV, Ku70 and Ku80 and to accelerate XRCC4/DNA ligase IV-mediated ligation of chromosomal DSB in concert with APLF (PMID: 24598253).

Notable Publications

Author	Pubmed ID	Journal	Application
Evgeniia Prokhorova	34019811	Mol Cell	WB
Moriah R Arnold	36493759	Cell Chem Biol	WB
Wei Yue	38640836	EBioMedicine	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

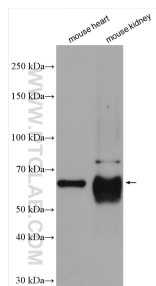
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

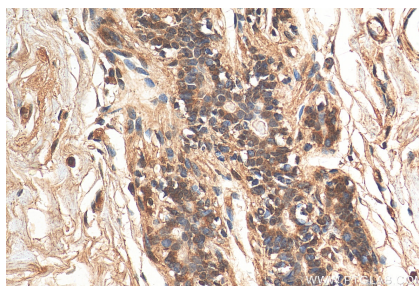
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

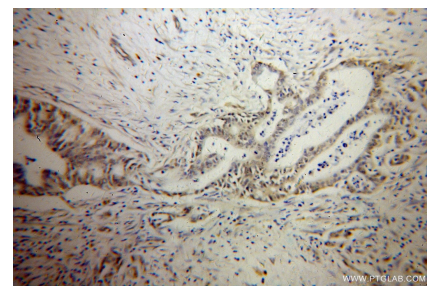
Selected Validation Data



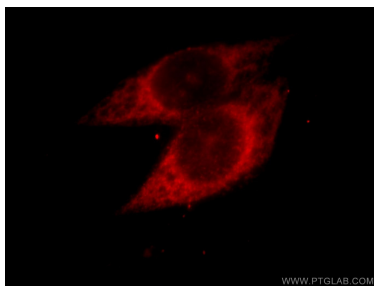
Various lysates were subjected to SDS PAGE followed by western blot with 11289-1-AP (PARP3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



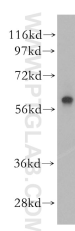
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11289-1-AP (PARP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



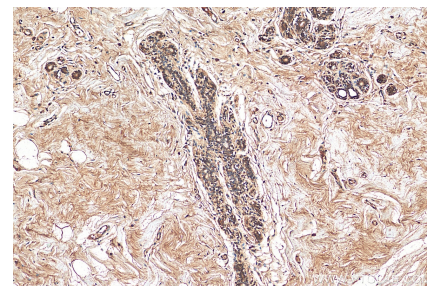
Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 11289-1-AP (PARP3 antibody) at dilution of 1:50 (under 10x lens).



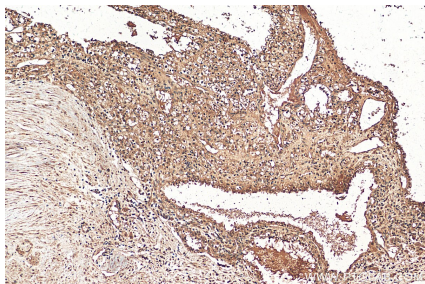
Immunofluorescent analysis of HeLa cells, using PARP3 antibody 11289-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



human kidney tissue were subjected to SDS PAGE followed by western blot with 11289-1-AP (PARP3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11289-1-AP (PARP3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 11289-1-AP (PARP3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).