For Research Use Only

PARP3 Polyclonal antibody

Catalog Number:11289-1-AP Featured Product 3 Publications

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Basic Information

Catalog Number:
11289-1-AP

Size:
500 ug/ml

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

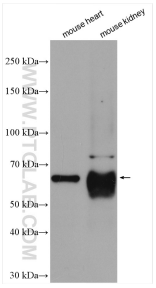
Author	Pubmed ID	Journal	Application
Evgeniia Prokhorova	34019811	Mol Cell	WB
Moriah R Arnold	36493759	Cell Chem Biol	WB
Wei Yue	38640836	EBioMedicine	WB

Storage

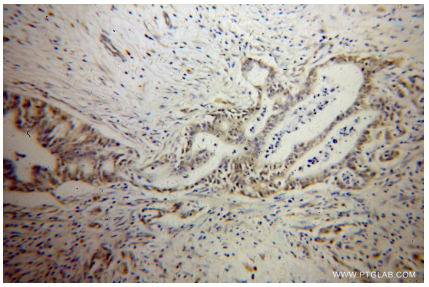
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

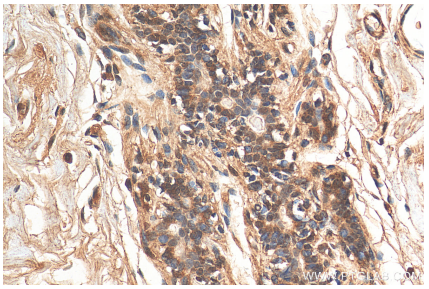
Selected Validation Data



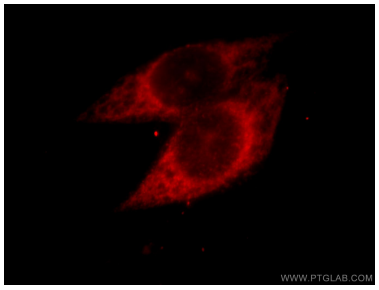
Various lysates were subjected to SDS PAGE followed by western blot with 11289-1-AP (PARP3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



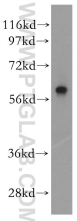
Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 11289-1-AP (PARP3 antibody) at dilution of 1:50 (under 10x lens).



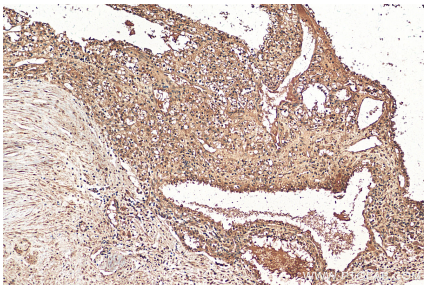
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 11289-1-AP (PARP3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



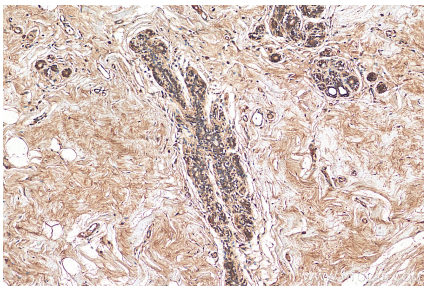
Immunofluorescent analysis of Hela cells, using PARP3 antibody 11289-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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 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).



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).