

For Research Use Only

# USP47 Polyclonal antibody, PBS Only

Catalog Number:20376-1-PBS



## Basic Information

Catalog Number:

20376-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13990

GenBank Accession Number:

BC000226

GeneID (NCBI):

55031

UNIPROT ID:

Q96K76

Full Name:

ubiquitin specific peptidase 47

Calculated MW:

1375 aa, 157 kDa

Observed MW:

151 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human

## Background Information

USP47 (Ubiquitin-Specific Peptidase 47) is a deubiquitinating enzyme that regulates protein stability and function by specifically removing ubiquitin chains from target proteins. USP47 is involved in various fundamental biological processes, including DNA damage repair, cell cycle progression, Wnt signaling, and epithelial-mesenchymal transition. By deubiquitinating and stabilizing  $\beta$ -catenin and TLE3, this enzyme positively regulates the Wnt/ $\beta$ -catenin signaling pathway, thereby promoting cell proliferation and tumorigenesis. Studies have shown that USP47 is significantly overexpressed in various cancers, such as colorectal cancer, gastric cancer, and breast cancer, where it participates in epithelial-mesenchymal transition (EMT), DNA damage repair, and cell cycle regulation.

## Storage

Storage:

Store at  $-80^{\circ}\text{C}$ .

**The product is shipped with ice packs. Upon receipt, store it immediately at  $-80^{\circ}\text{C}$**

Storage Buffer:

PBS only, pH7.3

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

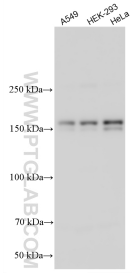
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

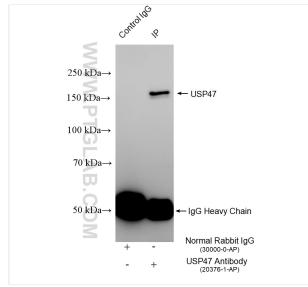
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20376-1-AP (USP47 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 20376-1-PBS in a different storage buffer formulation.



IP result of anti-USP47 (IP:20376-1-AP, 4ug; Detection:20376-1-AP 1:800) with HeLa cells lysate 1400 ug. This data was developed using the same antibody clone with 20376-1-PBS in a different storage buffer formulation.