

For Research Use Only

# iASPP Polyclonal antibody

Catalog Number:18590-1-AP

Featured Product

6 Publications



## Basic Information

**Catalog Number:**

18590-1-AP

**Size:**

650 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG13273

**GenBank Accession Number:**

BC064913

**GeneID (NCBI):**

10848

**UNIPROT ID:**

Q8WUF5

**Full Name:**

protein phosphatase 1, regulatory (inhibitor) subunit 13 like

**Calculated MW:**

89 kDa

**Observed MW:**

110 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:400-1:1600

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IF, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB : NIH/3T3 cells, PC-3 cells, MCF-7 cells, Apoptosis HeLa cells, C6 cells

IP : PC-3 cells,

IHC : human breast cancer tissue, human cervical squamous cancer tissue

IF/ICC : MCF-7 cells,

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

## Background Information

Inhibitor of apoptosis-stimulating protein of p53 (iASPP), encoded by PPP1R13L gene, is often overexpressed in human cancers. The ASPP family includes three members, namely ASPP1, ASPP2, and iASPP, which are specific regulators of p53-, p63-, and p73-mediated apoptosis. ASPP1 and ASPP2 enhance the apoptotic function of p53, whereas iASPP specifically inhibits p53-mediated apoptosis. Overexpression of iASPP is associated with resistance to cisplatin-induced apoptosis and radiation therapy. iASPP plays a pivotal role in regulating cancer cell proliferation and tumor progression. This antibody could both recognize unphosphorylated and phosphorylated iASPP.

## Notable Publications

| Author         | Pubmed ID | Journal                             | Application |
|----------------|-----------|-------------------------------------|-------------|
| Timur Yagudin  | 33128543  | Acta Biochim Biophys Sin (Shanghai) | WB          |
| Aurélie Mangon | 34705028  | J Cell Biol                         | WB,IP       |
| Kun Gao        | 29743530  | Cell Death Dis                      | WB,IP,IF    |

## 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:

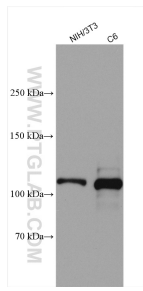
T: 4006900926

E: Proteintech-CN@ptglab.com

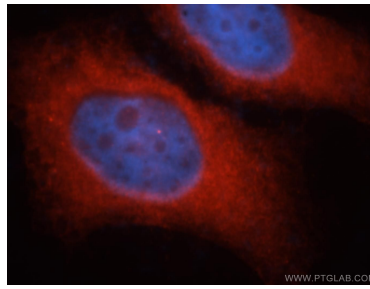
W: ptgcn.com

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

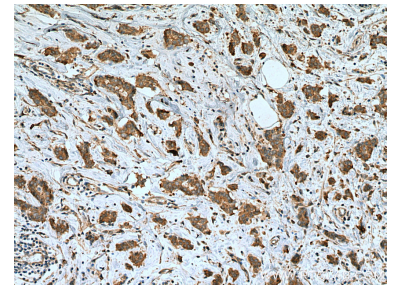
## Selected Validation Data



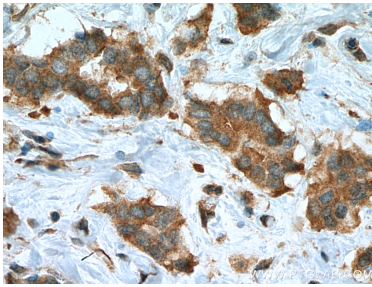
Various lysates were subjected to SDS PAGE followed by western blot with 18590-1-AP (iASPP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



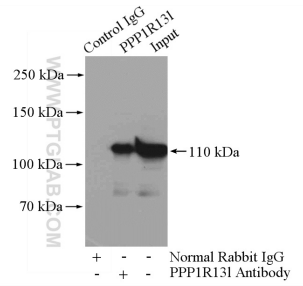
Immunofluorescent analysis of MCF-7 cells, using PPP1R13L antibody 18590-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



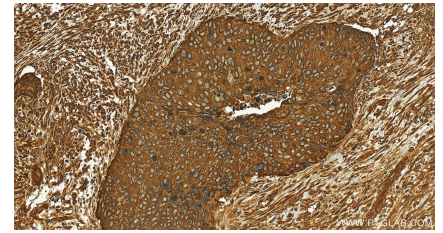
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18590-1-AP (iASPP antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18590-1-AP (iASPP antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-iASPP (IP:18590-1-AP, 4ug; Detection:18590-1-AP 1:1000) with PC-3 cells lysate 1040ug.



Immunohistochemical analysis of paraffin-embedded human cervical squamous cancer tissue slide using 18590-1-AP (iASPP antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).