

For Research Use Only

# PTPN2 Polyclonal antibody

Catalog Number: 11214-1-AP

Featured Product

16 Publications



## Basic Information

### Catalog Number:

11214-1-AP

### Concentration:

550 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1709

### GenBank Accession Number:

BC016727

### GeneID (NCBI):

5771

### UNIPROT ID:

P17706

### Full Name:

protein tyrosine phosphatase, non-receptor type 2

### Calculated MW:

49 kDa

### Observed MW:

45-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB : mouse thymus tissue, HeLa cells, HL-60 cells, NIH/3T3 cells

IP : HL-60 cells,

IHC : human colon cancer tissue,

IF/ICC : U2OS 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

PTPN2(Tyrosine-protein phosphatase non-receptor type 2) is also named as PTPT and belongs to the protein-tyrosine phosphatase family. It may modulate beta-cell apoptosis and/or local release of inflammatory mediators in the course of a viral infection by acting, at least in part, at the pancreatic beta-cell level(PMID: 19825843). This protein has some isoforms produced by alternative splicing with the molecular mass of 40-50 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liang Lu	28492557	Cell Death Dis	WB
Hyunseung Lee	28322331	Sci Rep	IHC
Sander Ellegård	30867772	Oncol Lett	

## 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:

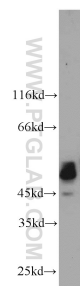
T: 4006900926

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

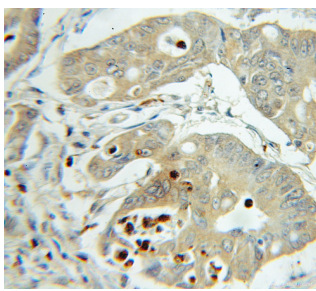
W: [ptgcn.com](http://ptgcn.com)

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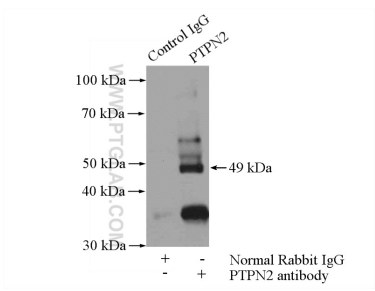
Selected Validation Data



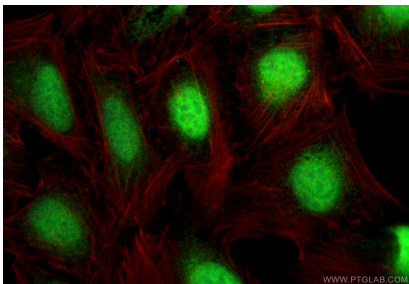
mouse thymus tissue were subjected to SDS PAGE followed by western blot with 11214-1-AP (PTPN2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 11214-1-AP (PTPN2 antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-PTPN2 (IP:11214-1-AP, 4ug; Detection:11214-1-AP 1:500) with HL-60 cells lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using PTPN2 antibody (11214-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).