

For Research Use Only

# PTPRS Polyclonal antibody

Catalog Number: 13008-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

13008-1-AP

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3691

**GenBank Accession Number:**

BC029496

**GeneID (NCBI):**

5802

**UNIPROT ID:**

Q13332

**Full Name:**

protein tyrosine phosphatase, receptor type, S

**Calculated MW:**

128aa, 14 kDa; 1948aa, 217 kDa

**Observed MW:**

75-100 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

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

IHC 1:50-1:500

## Applications

**Tested Applications:**

FC, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

**WB:** HeLa cells, mouse brain tissue

**IP:** mouse brain tissue,

**IHC:** human kidney tissue,

**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

Type II a receptor protein tyrosine phosphatases (rPTP<sup>α</sup>) are cell surface receptors important for nervous system development, function, and repair. The expression of rPTP<sup>α</sup> has previously been reported in b-cells and other target organs for INS although the probes chosen did not permit to distinguish between the splice variants. Proteolytic processing near the transmembrane domain generates an extracellular N-terminal E-domain of 130 kDa and a C-terminal P-domain of approximately 85 kDa of rPTP<sup>α</sup>, and the short splice variants rPTP<sup>α</sup> 3 and 4 contain an E-domain of 95 kDa (PMID: 16552719). rPTP<sup>α</sup> expression was observed in tissue lysates of the adult mouse sensory-motor cortex and thoracic spinal cord (T8-T10) as a 75-80kDa immunoreactive band (PMID: 19780196).

## Notable Publications

Author	Pubmed ID	Journal	Application
Andrea M Gomez	25407677	Elife	WB
Jingjing Wu	33151000	J Gene Med	WB
Jun Zhong	30688376	J Cell Biochem	IF, 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:

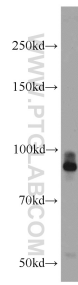
T: 4006900926

E: Proteintech-CN@ptglab.com

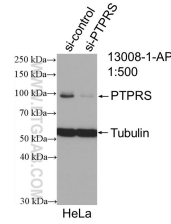
W: ptgcn.com

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

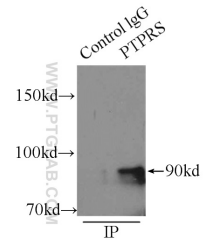
## Selected Validation Data



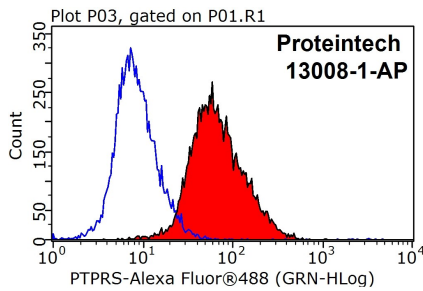
HeLa cells were subjected to SDS PAGE followed by western blot with 13008-1-AP (PTPRS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



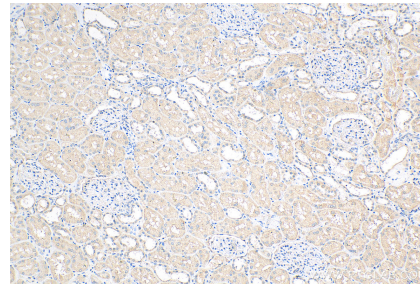
WB result of PTPRS antibody (13008-1-AP; 1:500; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTPRS transfected HeLa cells.



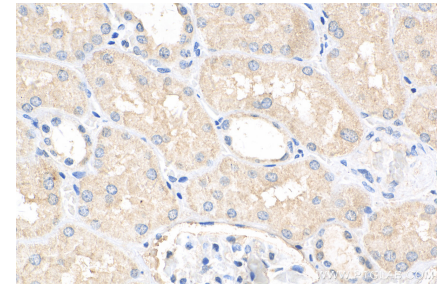
IP result of anti-PTPRS (IP:13008-1-AP, 5ug; Detection:13008-1-AP 1:400) with mouse brain tissue lysate 6500ug.



1X10<sup>6</sup> HeLa cells were stained with 0.2ug PTPRS antibody (13008-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 13008-1-AP (PTPRS 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 kidney tissue slide using 13008-1-AP (PTPRS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).