

For Research Use Only

PTPRS Polyclonal antibody

Catalog Number: 13008-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

13008-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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 : HeLa cells, mouse brain tissue

IP : mouse brain tissue,

IHC : human kidney tissue,

Background Information

Type II a receptor protein tyrosine phosphatases (rPTP α) are cell surface receptors important for nervous system development, function, and repair. The expression of rPTP α 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 α , and the short splice variants rPTP α 3 and 4 contain an E-domain of 95 kDa (PMID: 16552719). rPTP α 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

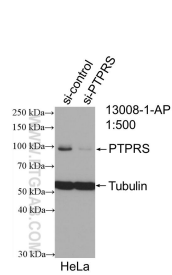
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

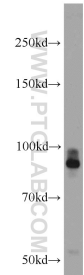
E: proteintech@ptglab.com
W: ptglab.com

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

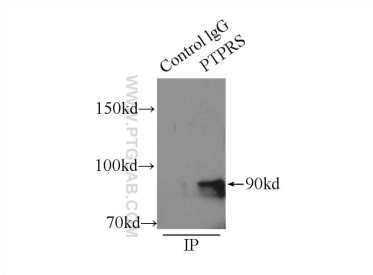
Selected Validation Data



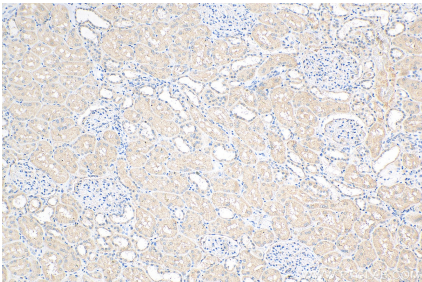
WB result of PTPRS antibody (13008-1-AP; 1:500; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTPRS transfected HeLa cells.



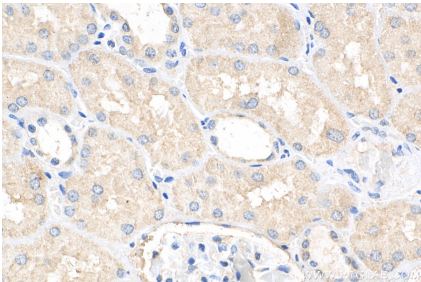
HeLa cells were subjected to SDS PAGE followed by western blot with 13008-1-AP (PTPRS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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



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).