

PTPRS Polyclonal Antibody

Catalog number: 13008-1-AP

Size: 90 µg/150 µl

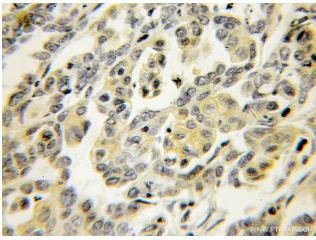
Source: Rabbit

Isotype: IgG

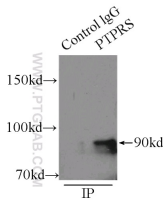
Synonyms:

PTPRS; PTPRS, PTPSIGMA, R

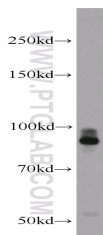
PTP S, R PTP sigma, rPTPσ



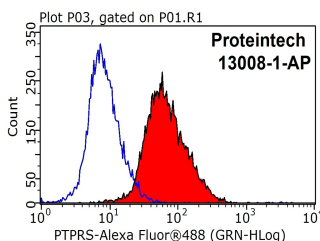
Immunohistochemical of paraffin-embedded human ovary tumor using 13008-1-AP(rPTPσ antibody) at dilution of 1:100 (under 10x lens)



IP Result of anti-rPTPσ (IP:13008-1-AP, 5µg; Detection:13008-1-AP 1:400) with mouse brain tissue lysate 6500µg.



HeLa cells were subjected to SDS PAGE followed by western blot with 13008-1-AP(rPTPσ antibody) at dilution of 1:1000



Background

Type IIa receptor protein tyrosine phosphatases (rPTPσ) are cell surface receptors important for nervous system development, function, and repair. The expression of rPTPσ has previously been reported in b-cells and other target organs for insulin 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 rPTPσ, and the short splice variants rPTPσ 3 and 4 contain an E-domain of 95 kDa (PMID:16552719). rPTPσ 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).

Applications

Tested applications:	ELISA, WB, IHC, IP, FC
Cited applications:	IHC, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Rat
Calculated PTPRS MW:	128aa, 14 kDa; 1948aa, 217 kDa
Observed PTPRS MW:	75-100 kDa
Positive WB detected in	HeLa cells, mouse brain tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human ovary tumor tissue, human ovary tissue, human pancreas tissue, rat brain tissue
Positive FC detected in	HeLa cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:1000 IHC: 1:20-1:200 FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3691
GenBank accession number:	BC029496
Gene ID (NCBI):	5802
Full name:	Protein tyrosine phosphatase, receptor type, S

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

1X10⁶ HeLa cells were stained with 0.2ug rPTP σ 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.