

For Research Use Only

PTPRS Polyclonal antibody

Catalog Number: 29415-1-AP

Featured Product



Basic Information

Catalog Number: 29415-1-AP	GenBank Accession Number: NM_002850	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 800 µg/ml by Nanodrop;	GeneID (NCBI): 5802	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q13332	
Isotype: IgG	Full Name: protein tyrosine phosphatase, receptor type, S	
Immunogen Catalog Number: AG30152	Calculated MW: 217 kDa	
	Observed MW: 140 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, Mouse

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 : A549 cells, HEK-293 cells, HeLa cells

IHC : mouse brain tissue,

Background Information

PTPRS, also known as R-PTP-sigma or PTPσ, is a member of the protein tyrosine phosphatase (PTP) family (PMID: 8524829). PTPs dephosphorylate phosphotyrosyl residues in proteins that are phosphorylated by protein-tyrosine kinases (PTKs) (PMID: 20838449). PTPs are essential regulators of signal transduction pathways and play important roles in regulating many cellular processes in conjunction with PTKs (PMID: 7834742). PTPRS contains an extracellular region, a single transmembrane segment and two tandem intracellular catalytic domains, and thus represents a receptor-type PTP. Full-length PTPRS is 217 kDa and has been reported to be proteolytically cleaved into a 140-kDa N-terminal subunit containing extracellular and transmembrane domains and a C-terminal subunit (PMID: 29915291). This antibody raised against 825-1000 aa of human PTPRS detects endogenous PTPRS with an apparent molecular weight of 140 kDa.

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

*** 20ul sizes contain 0.1% BSA

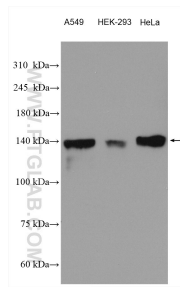
For technical support and original validation data for this product please contact:

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

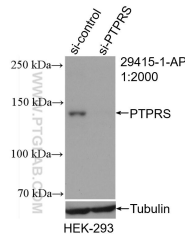
E: proteintech@ptglab.com
W: ptglab.com

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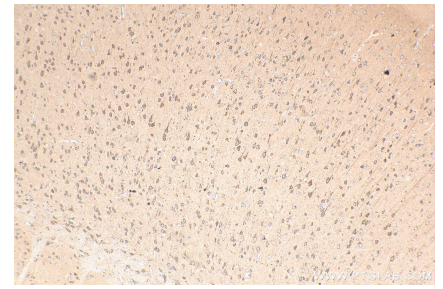
Selected Validation Data



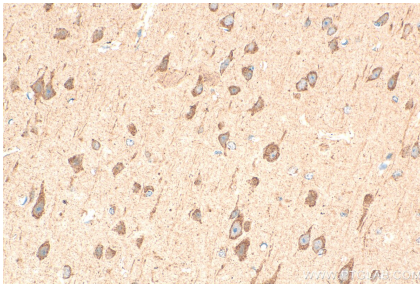
Various lysates were subjected to SDS PAGE followed by western blot with 29415-1-AP (PTPRS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of PTPRS antibody (29415-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTPRS transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 29415-1-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 mouse brain tissue slide using 29415-1-AP (PTPRS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).