

For Research Use Only

PTPRJ Polyclonal antibody

Catalog Number: 55123-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

55123-1-AP

Size:

400 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_002843

GeneID (NCBI):

5795

UNIPROT ID:

Q12913

Full Name:

protein tyrosine phosphatase, receptor type, J

Calculated MW:

146 kDa

Observed MW:

146-170 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:100-1:400

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HepG2 cells, HeLa cells, Jurkat cells, K-562 cells, multi-cells/tissue, PC-3 cells

IHC : human tonsillitis 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

PTPRJ, also named as CD148 and DEP1, belongs to the protein-tyrosine phosphatase family and Receptor class 3 subfamily. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTPRJ may contribute to the mechanism of contact inhibition of cell growth. PTPRJ is present in all hematopoietic lineages, and was shown to negatively regulate T cell receptor signaling possibly through interfering with the phosphorylation of Phospholipase C Gamma 1 (PLCG1) and Linker for Activation of T Cells (LAT). It was also found to dephosphorylate PDGF beta receptor, and may be involved in UV-induced signal transduction. The antibody is specific to PTPRJ.

Notable Publications

Author	Pubmed ID	Journal	Application
Zijun Wang	33192072	Onco Targets Ther	IHC
Hongmei Lu	31384238	Clin Proteomics	WB
Jia-Bin Wang	38773976	Theranostics	IHC

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:

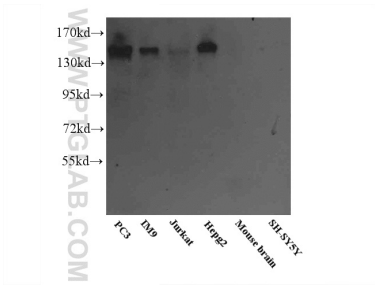
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

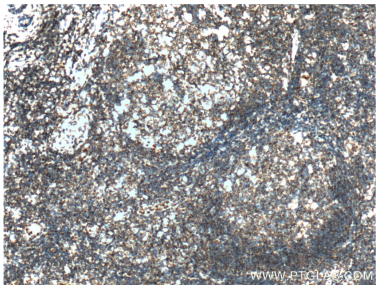
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

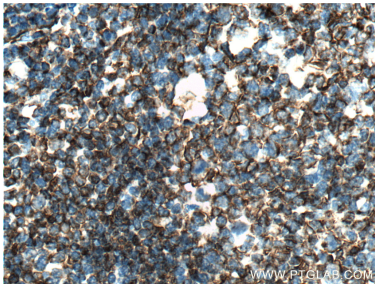


WB result of 55123-1-AP.

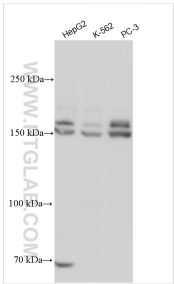
K-562 cells were subjected to SDS PAGE followed by western blot with 55123-1-AP (PTPRJ antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



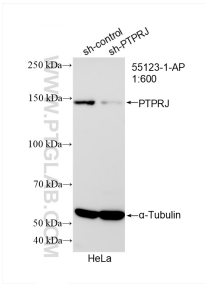
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 55123-1-AP (PTPRJ Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 55123-1-AP (PTPRJ Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 55123-1-AP (PTPRJ antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



WB result of PTJR antibody (55123-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTPRJ transfected HeLa cells.