

For Research Use Only

# PTPRJ Polyclonal antibody

Catalog Number: 55123-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 55123-1-AP	<b>GenBank Accession Number:</b> NM_002843	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 400 µg/ml by Nanodrop and 193 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5795	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:100-1:400
<b>Source:</b> Rabbit	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, J	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 146 kDa	
	<b>Observed MW:</b> 146-170 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, multi-cells/tissue, K-562 cells, Jurkat cells, PC-3 cells IHC : human tonsillitis tissue,
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Casagrande Silvia S	23007793	J Pathol	WB

## Storage

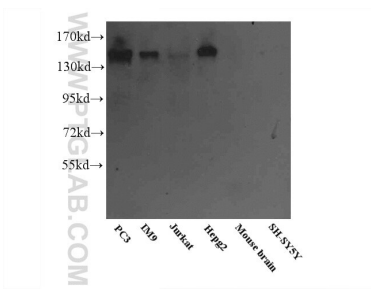
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

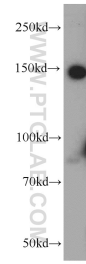
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

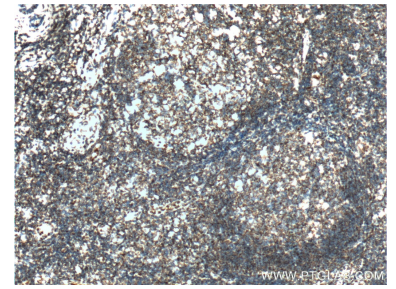
## Selected Validation Data



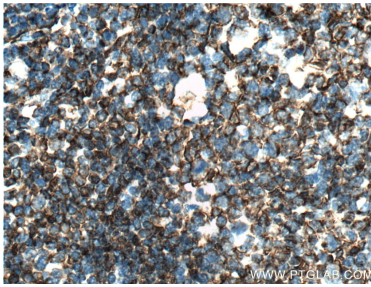
WB result of 55123-1-AP.



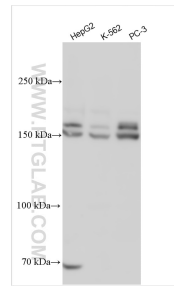
K-562 cells were subjected to SDS PAGE followed by western blot with 55123-1-AP (PTPRJ antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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.