

For Research Use Only

# PTPN7 Polyclonal antibody

Catalog Number: 15286-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 15286-1-AP	<b>GenBank Accession Number:</b> BC001746	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5778	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> protein tyrosine phosphatase, non-receptor type 7	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 41 kDa	
<b>Immunogen Catalog Number:</b> AG7453	<b>Observed MW:</b> 38-40 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : Raji cells, K-562 cells
<b>Cited Applications:</b> WB	<b>IHC :</b> human tonsillitis tissue, human lymphoma tissue
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> pig	
<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

PTPN7, also known as haematopoietic PTP (HePTP), belongs to the R7 family of protein tyrosine phosphatases (PTPs) which all contain a conserved 16 amino acid sequence at their N-termini (PMID: 9857190). PTPN7, via negative regulation of MAPK signalling, plays a key role in T-cell and B-cell development and is the only known PTP whose expression in T-lymphocytes is induced by IL-2 (PMID: 15980098). PTPN7 is a 38 kDa non-receptor PTP expressed predominately in leukocytes, spleen and thymus (PMID: 1530918, 24265715, 19636879).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yihan Wang	35155446	Front Cell Dev Biol	WB

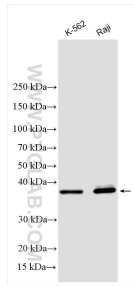
## Storage

**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

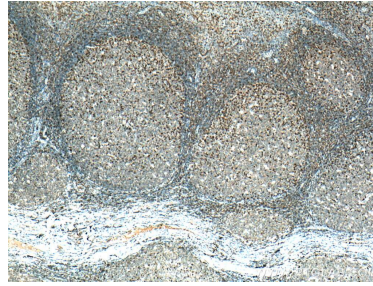
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

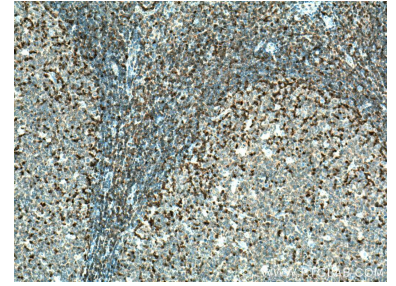
## Selected Validation Data



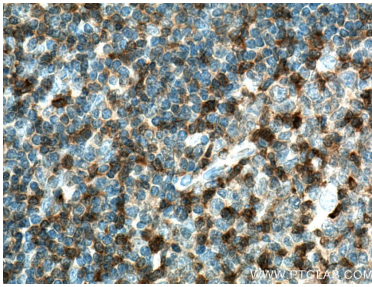
Various lysates were subjected to SDS PAGE followed by western blot with 15286-1-AP (PTPN7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15286-1-AP (PTPN7 antibody) at dilution of 1:400 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15286-1-AP (PTPN7 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15286-1-AP (PTPN7 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).