

For Research Use Only

# PTPN14 Polyclonal antibody

Catalog Number: 18053-1-AP

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 18053-1-AP	<b>GenBank Accession Number:</b> BC101754	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 200 µg/ml by Nanodrop and 153 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5784	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> protein tyrosine phosphatase, non-receptor type 14	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1187 aa, 135 kDa	
<b>Immunogen Catalog Number:</b> AG12571	<b>Observed MW:</b> 150 kDa	

## Applications

**Tested Applications:**  
IHC, WB, ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human

**Cited Species:**  
canine

**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:** HeLa cells, K-562 cells

**IHC:** human placenta tissue, human brain tissue, human kidney tissue, human lung tissue, human ovary tissue, human skin tissue, human spleen tissue

## Background Information

PTPN14 (tyrosine-protein phosphatase non-receptor type 14) is also named as PEZ and belongs to the protein-tyrosine phosphatase family and non-receptor class subfamily. It is a multi-domain protein expressed in breast, kidney, skeletal muscle, lung, placenta, and characterized by an N-terminal FERM domain and a C-terminal PTP domain with an intervening sequence containing an acidic region and a putative SH3 domain-binding sequence (PMID: 21701840). Defects in PTPN14 are a cause of choanal atresia and lymphedema (CHATLY).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhenbin Liu	37579524	Biologicals	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

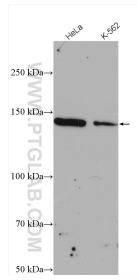
For technical support and original validation data for this product please contact:

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

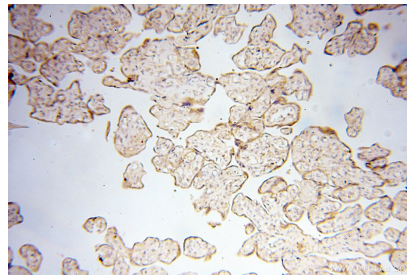
E: proteintech@ptglab.com  
W: ptglab.com

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

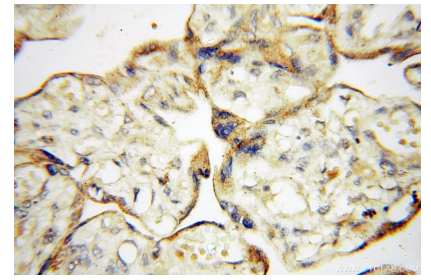
## Selected Validation Data



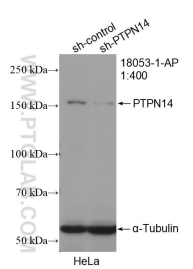
Various lysates were subjected to SDS PAGE followed by western blot with 18053-1-AP (PTPN14 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta using 18053-1-AP (PTPN14 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta using 18053-1-AP (PTPN14 antibody) at dilution of 1:50 (under 40x lens).



WB result of PTPN14 antibody (18053-1-AP; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTPN14 transfected HeLa cells.