For Research Use Only

PTPN14 Polyclonal antibody

Catalog Number:18053-1-AP Featured Product 1 Publications

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Basic Information

Catalog Number:
18053-1-AP

Size:
150ul , Concentration: 200 ug/ml by Nanodrop and 153 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12571

GenBank Accession Number:
BC101754

GeneID (NCBI):
5784

UNIPROT ID:
Q15678

Full Name:
protein tyrosine phosphatase, non-receptor type 14

Calculated MW:
1187 aa, 135 kDa

Observed MW:
150 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200

Applications

Tested Applications:
WB, IHC, 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
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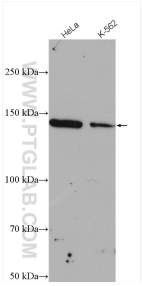
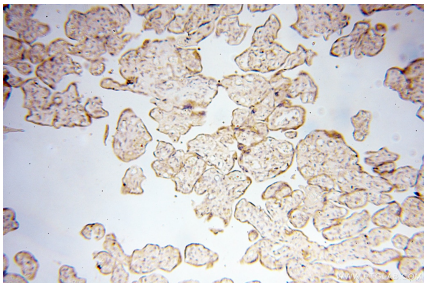
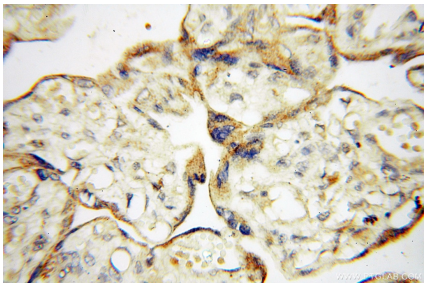
Selected Validation Data



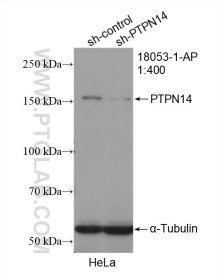
Various lysates were subjected to SDS PAGE followed by western blot with 18053-1-AP (PTPN14 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.