

For Research Use Only

PTPN14 Monoclonal antibody

Catalog Number: 67744-1-Ig 1 Publications



Basic Information

Catalog Number: 67744-1-Ig	GenBank Accession Number: BC101754	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop and 586 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5784	CloneNo.: 1B8C8
Source: Mouse	UNIPROT ID: Q15678	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: protein tyrosine phosphatase, non-receptor type 14	
Immunogen Catalog Number: AG12679	Calculated MW: 1187 aa, 135 kDa	
	Observed MW: 150 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : U2OS cells, A549 cells, HEK-293 cells, HeLa cells, K-562 cells IHC : human placenta tissue, IF/ICC : HeLa cells,
Cited Applications: WB, IF	
Species Specificity: human	
Cited Species: human	
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

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
Zengbin Wang	36791564	Biomed Pharmacother	WB,IF

Storage

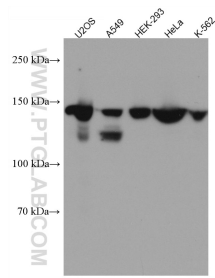
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

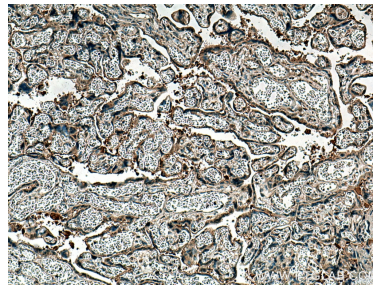
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

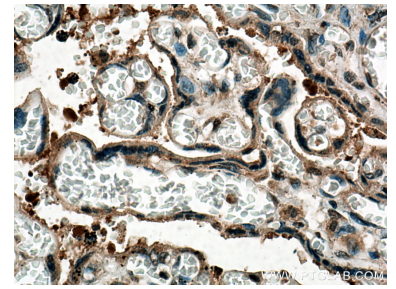
Selected Validation Data



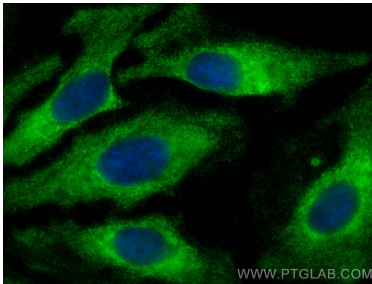
Various lysates were subjected to SDS PAGE followed by western blot with 67744-1-Ig (PTPN14 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 67744-1-Ig (PTPN14 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 placenta tissue slide using 67744-1-Ig (PTPN14 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PTPN14 antibody (67744-1-Ig, Clone: 1B8C8) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).