

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 G purification
Size: 1000 µg/ml	GeneID (NCBI): 5784	CloneNo.: 1B8C8
Source: Mouse	UNIPROT ID: Q15678	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
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: IHC, WB, ELISA	Positive Controls: WB : U2OS cells, A549 cells, HEK-293 cells, HeLa cells, K-562 cells IHC : human placenta tissue,
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

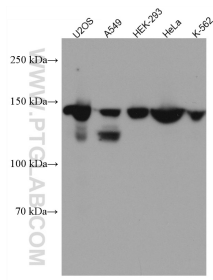
Storage

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

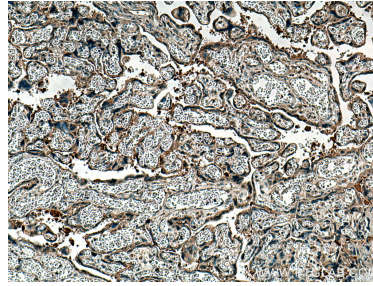
For technical support and original validation data for this product please contact:
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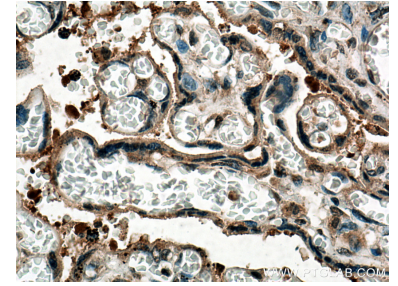
Selected Validation Data



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).