

For Research Use Only

# MAN1A2 Polyclonal antibody

Catalog Number: 14049-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 14049-1-AP	<b>GenBank Accession Number:</b> BC063300	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 240 ug/ml by Nanodrop and 173 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10905	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O60476	
<b>Isotype:</b> IgG	<b>Full Name:</b> mannosidase, alpha, class 1A, member 2	
<b>Immunogen Catalog Number:</b> AG5240	<b>Calculated MW:</b> 641 aa, 73 kDa	
	<b>Observed MW:</b> 73 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, IHC, ELISA	<b>Positive Controls:</b> WB: human placenta tissue, IP: human placenta tissue, IHC: human placenta tissue, human heart tissue, human lung tissue, human ovary tissue
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> 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

The first group or Class I mannosidase is comprised of  $\alpha$ 1-2 mannosidases from mammals and yeast with encoded polypeptides of 65-75 kDa. Most of them are  $Ca^{2+}$ -dependent enzymes located in the ER and/or Golgi which are inhibited by substrate mimics like kifunensine and deoxymannojirimycin. Their specificity is restricted to  $\alpha$ (1-2) linkages, and they are mostly inactive towards artificial substrates like arylmannosides (PMID:10207175).

## Notable Publications

Author	Pubmed ID	Journal	Application
Song Hu	27920474	World J Gastroenterol	WB

## Storage

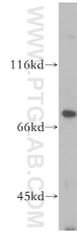
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

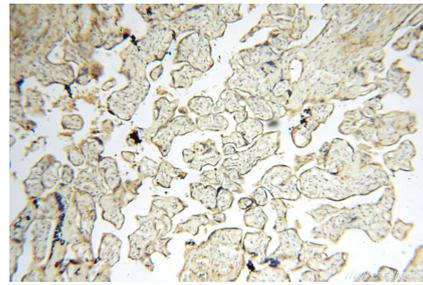
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

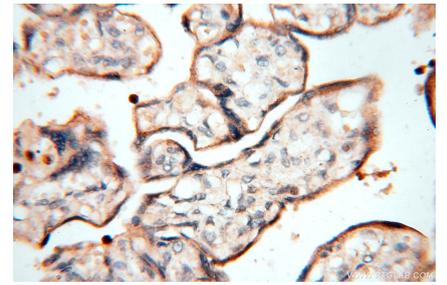
## Selected Validation Data



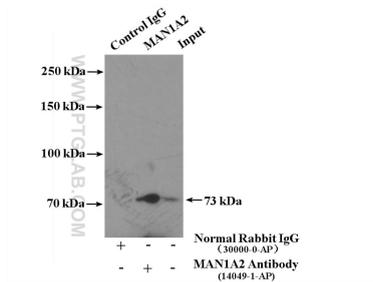
human placenta tissue were subjected to SDS PAGE followed by western blot with 14049-1-AP (MAN1A2 antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta using 14049-1-AP (MAN1A2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta using 14049-1-AP (MAN1A2 antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-MAN1A2 (IP:14049-1-AP, 4ug; Detection:14049-1-AP 1:200) with human placenta tissue lysate 4000ug.