

For Research Use Only

# GCS1 Polyclonal antibody

Catalog Number: 17859-1-AP

Featured Product

8 Publications



## Basic Information

<b>Catalog Number:</b> 17859-1-AP	<b>GenBank Accession Number:</b> BC028337	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7841	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> mannosyl-oligosaccharide glucosidase	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 837 aa, 92 kDa	
<b>Immunogen Catalog Number:</b> AG12321	<b>Observed MW:</b> 80-92 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : COLO 320 cells, IHC : human small intestine tissue, human liver tissue
<b>Cited Applications:</b> CoIP, IF, IHC, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, rat	

**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

MOGS (Mannosyl-oligosaccharide glucosidase), also known as GCS1, is the first enzyme in the N-linked oligosaccharide processing pathway. The enzyme cleaves the distal alpha-1,2-linked glucose residue from the Glc(3)-Man(9)-GlcNAc(2) oligosaccharide precursor (PMID: 38187061). The resulting Glc(2)-Man(9)-GlcNAc(2) intermediate is then further modified by glucosidase II and several ER- and Golgi-resident mannosidases and glycosyltransferases, finally yielding a complex array of glycan structures (PMID: 3896128). MOGS has two isoforms, and it is located in the lumen of the endoplasmic reticulum.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yong Huang	32938225	Am J Physiol Cell Physiol	WB
Jianyu Ma	31635221	Int J Mol Sci	WB
Emily J Sherman	35231079	PLoS Pathog	WB

## Storage

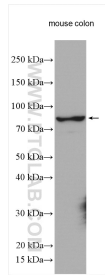
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

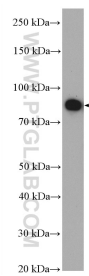
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

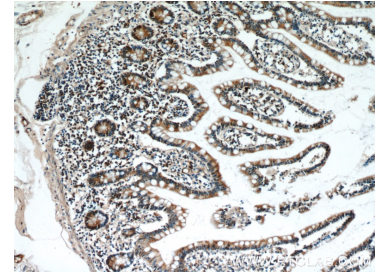
## Selected Validation Data



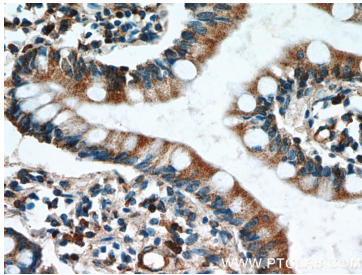
mouse colon tissue were subjected to SDS PAGE followed by western blot with 17859-1-AP (GCS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



COLO 320 cells were subjected to SDS PAGE followed by western blot with 17859-1-AP (GCS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human small intestine using 17859-1-AP (GCS1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human small intestine using 17859-1-AP (GCS1 antibody) at dilution of 1:100 (under 40x lens).