

For Research Use Only

# CTBS Polyclonal antibody

Catalog Number:12599-1-AP



## Basic Information

<b>Catalog Number:</b> 12599-1-AP	<b>GenBank Accession Number:</b> BC024007	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1486	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:10-1:100
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q01459	
<b>Isotype:</b> IgG	<b>Full Name:</b> chitobiase, di-N-acetyl-	
<b>Immunogen Catalog Number:</b> AG3228	<b>Calculated MW:</b> 12 kDa, 43 kDa	
	<b>Observed MW:</b> 44-50 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat

**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, HepG2 cells, MCF-7 cells, SMMC-7721 cells, mouse colon tissue

**IHC :** human prostate cancer tissue, human liver cancer tissue, human liver tissue, human kidney tissue

**IF/ICC :** HepG2 cells,

## Background Information

CTBS(Di-N-acetylchitobiase (chitobiase)) also named as CTB, is a lysosomal exoglycosidase that splits the GlcNAcβ-D-(1-4)GlcNAc chitobiose core of asparagine-linked glycoproteins. Chitobiase has been purified from human liver and kidney and rat liver. Both the human and rat enzymes are approximately 40-45 kDa and require a free reducing end GlcNAc for activity(PMID:1527079). This full length protein has a signal peptide and four glycosylation sites.

## 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**

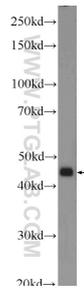
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

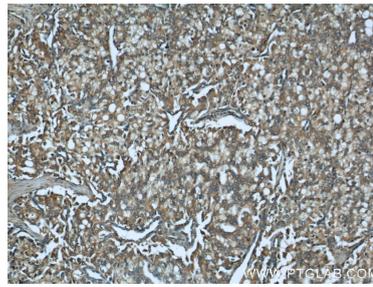
E: proteintech@ptglab.com  
W: ptglab.com

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

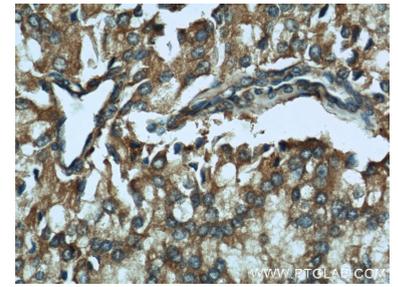
## Selected Validation Data



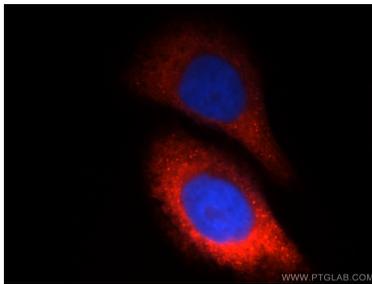
HeLa cells were subjected to SDS PAGE followed by western blot with 12599-1-AP (CTBS Antibody) at dilution of 1:600 incubated at 4 degree celsius over night.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 12599-1-AP (CTBS antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 12599-1-AP (CTBS antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using CTBS antibody 12599-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).