

For Research Use Only

CTBS Polyclonal antibody

Catalog Number: 12599-1-AP



Basic Information

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

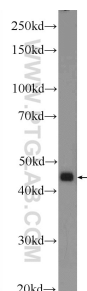
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

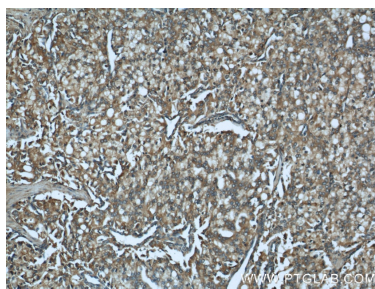
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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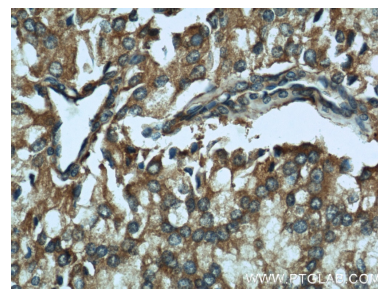
Selected Validation Data



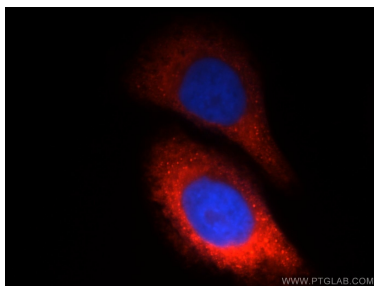
HeLa cells were subjected to SDS PAGE followed by western blot with 12599-1-AP (CTBS Antibody) at dilution of 1:600 incubated at 4 degree celsius over night.



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).