

CTBS Polyclonal Antibody

Catalog number: 12599-1-AP

Size: 20 µg/150 µl

Source: Rabbit

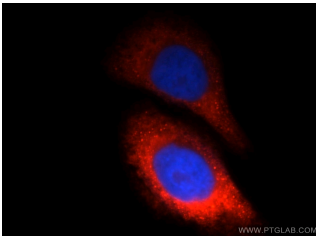
Isotype: IgG

Synonyms:

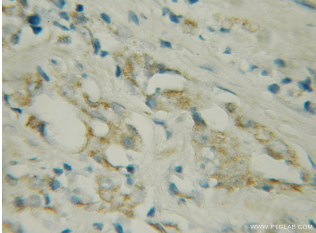
CTBS; chitobiase, di N acetyl,

CTB, CTBS, Di N

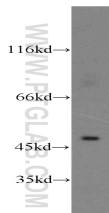
acetylchitobiase



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).



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



MCF7 cells were subjected to SDS PAGE followed by western blot with 12599-1-AP (CTBS antibody) at dilution of 1:400

Background

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.

Applications

Tested applications:	ELISA, WB, IHC, IF
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated CTBS MW:	12 kDa; 43 kDa
Observed CTBS MW:	44-50kd
Positive WB detected in	MCF7 cells, HeLa cells, HepG2 cells, mouse colon tissue, SMMC-7721 cells
Positive IHC detected in	Human prostate cancer tissue, human kidney tissue, human liver cancer tissue, human liver tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:1000 IHC: 1:20-1:200 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3228
GenBank accession number:	BC024007
Gene ID (NCBI):	1486
Full name:	Chitobiase, di-N-acetyl-

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.