

# CTBS Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP22194c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q01459</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB55137
<b>Calculated MW</b>	43760

## Additional Information

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<b>Gene ID</b>	1486
<b>Other Names</b>	Di-N-acetylchitobiase, 3.2.1.-, CTBS, CTB
<b>Target/Specificity</b>	This CTBS antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 141-172 amino acids from the Central region of human CTBS.
<b>Dilution</b>	WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	CTBS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CTBS ( <a href="#">HGNC:2496</a> )
<b>Synonyms</b>	CTB
<b>Function</b>	Reducing-end exoglycosidase involved in glycan degradation (PubMed: <a href="#">1527079</a> , PubMed: <a href="#">16115860</a> ). Hydrolyzes N,N'-diacetylchitobiose (GlnNAc2) and higher chitin-oligosaccharides (GlcNAc(n)) to monomeric GlcNAc acting on reducing-end residues (PubMed: <a href="#">1527079</a> ,

PubMed:[16115860](#), PubMed:[16794344](#)). During N-linked glycoprotein degradation, it cleaves single GlcNAc molecules uniquely from the reducing end of N,N'-diacetylchitobiose units linking oligosaccharides to proteins, and therefore it functions after cleavage of the Asn- GlcNAc bond and asparagine removal by glycosylasparaginase (By similarity).

#### Cellular Location

Lysosome {ECO:0000250 | UniProtKB:Q01460}.

## Background

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Involved in the degradation of asparagine-linked glycoproteins. Hydrolyze of N-acetyl-beta-D-glucosamine (1-4)N- acetylglucosamine chitobiose core from the reducing end of the bond, it requires prior cleavage by glycosylasparaginase.

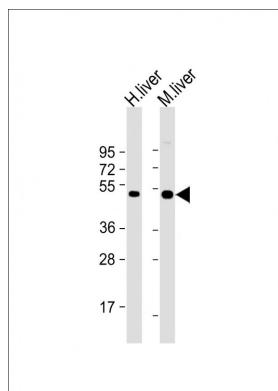
## References

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Fisher K.J.,et al.J. Biol. Chem. 267:19607-19616(1992).  
Liu B.,et al.Glycobiology 9:589-593(1999).  
Gregory S.G.,et al.Nature 441:315-321(2006).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Chen R.,et al.J. Proteome Res. 8:651-661(2009).

## Images

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All lanes : Anti-CTBS Antibody (Center) at 1:2000 dilution  
Lane 1: human liver lysate Lane 2: mouse liver lysate  
Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat  
Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000  
dilution. Predicted band size : 44 kDa Blocking/Dilution  
buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.