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CTBS Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22194c

Product Information

Application	WB, E
Primary Accession	Q01459
Reactivity	Human, Rat, Mouse
Predicted	Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55137
Calculated MW	43760

Additional Information

Gene ID	1486
Other Names	Di-N-acetylchitobiase, 3.2.1.-, CTBS, CTB
Target/Specificity	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.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	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.
Storage	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.
Precautions	CTBS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CTBS (HGNC:2496)
Synonyms	CTB
Function	Reducing-end exoglycosidase involved in glycan degradation (PubMed:1527079, PubMed:16115860). Hydrolyzes N,N'-diacetylchitobiose (GlnNAc2) and higher chitin-oligosaccharides (GlcNAc(n)) to monomeric

GlcNAc acting on reducing-end residues (PubMed:1527079, 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}.

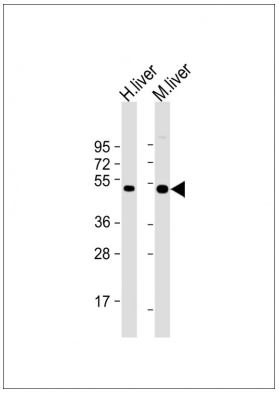
Background

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

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



All lanes : Anti-CTBS Antibody (Center) at 1:2000 dilution Lane 1: human liver lysate Lane 2: mouse liver lysate Lysates/proteins at 20 µg 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'.