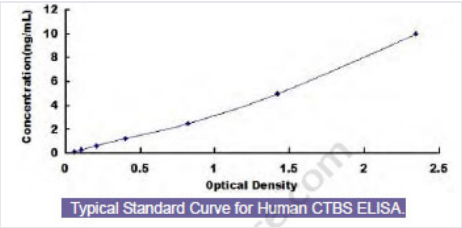
Di-N-Acetyl Chitobiase (CTBS) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Di-N-Acetyl Chitobiase (CTBS), ELISA Kit
Full Product Name	Human Di-N-Acetyl Chitobiase (CTBS) ELISA Kit
Product Gene Name	CTBS elisa kit
Product Synonym Names	CTB
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.071ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CTBS. No significant cross-reactivity or interference between CTBS and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CTBS were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CTBS were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	43,760 Da
OMIM	M95767 mRNA
3D Structure	ModBase 3D Structure for Q01459
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CTBS elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CTBS in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CTBS. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CTBS. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CTBS, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CTBS in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CTBS elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CTBS purchase	MBS455405 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Di-N-Acetyl Chitobiase (CTBS) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CTBS. The ELISA analytical biochemical technique of the MBS455405 kit is based on CTBS antibody-CTBS antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CTBS antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CTBS. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CTBS elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTBS. It may not necessarily be applicable to this product.

NCBI GI #	4758092
NCBI GeneID	1486
NCBI Accession #	NP_004379.1
UniProt Primary Accession #	Q01459
UniProt Secondary Accession #	Q5VX50
UniProt Related Accession #	Q01459
GenBank Nucleotide #	NM_004388.2
NCBI Official Full Name	di-N-acetylchitobiase
NCBI Official Synonym Full Names	chitobiase
NCBI Official Symbol	CTBS
NCBI Official Synonym Symbols	CTB
UniProt Protein Name	Di-N-acetylchitobiase
Protein Family	Di-N-acetylchitobiase
UniProt Gene Name	CTBS
UniProt Synonym Gene Names	CTB
NCBI Protein Information	di-N-acetylchitobiase
NCBI Summary for CTBS	Chitobiase is a lysosomal glycosidase involved in degradation of asparagine-linked oligosaccharides on glycoproteins (Aronson and Kuranda, 1989 [PubMed 2531691]).[supplied by OMIM, Nov 2010]
UniProt Comments for CTBS	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.
Research Articles on CTBS	**1.** Data indicate that infliximab changes the concentration of hexosaminidase (N-acetyl-beta-glucosaminidase; HEX) activity depending on the drug dose and time of administration.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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