CTSH Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CTSH, Blocking Peptide
Full Product Name	CTSH Antibody (N-term) Blocking Peptide
Product Gene Name	CTSH blocking peptide
Product Synonym Gene Name	CPSB
Product Synonym Names	Pro-cathepsin H; Cathepsin H mini chain; Cathepsin H; Cathepsin H heavy chain; Cathepsin H light chain; CTSH; CPSB
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human CTSH. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CTSH peptide (MBS9226839) is used for blocking the activity of CTSH antibody (MBS9202101)
Molecular Weight	37,394 Da
OMIM	116820
Cellular Location	Lysosome.
Related Product Information for CTSH blocking peptide	MBS9226839 is a blocking peptide targeting CTSH. Also known as CTSH Antibody (N-term) Blocking Peptide. Important for the overall degradation of proteins in lysosomes.
Other Notes	Small volumes of CTSH blocking peptide 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.

ADDITIONAL DETAILS

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

NCBI GI #	288558851
NCBI GeneID	1512
NCBI Accession #	P09668.4
UniProt Primary Accession #	P09668
UniProt Secondary Accession #	Q96NY6; Q9BUM7; B2RBK0
UniProt Related Accession #	P09668
NCBI Official Full Name	Pro-cathepsin H
NCBI Official Synonym Full Names	cathepsin H
NCBI Official Symbol	CTSH
NCBI Official Synonym Symbols	ACC4; ACC5; CPSB; ACC-4; ACC-5
UniProt Protein Name	Pro-cathepsin H

Protein Family	Pro-cathepsin
UniProt Gene Name	CTSH
UniProt Synonym Gene Names	CPSB
UniProt Entry Name	CATH_HUMAN
NCBI Protein Information	pro-cathepsin H
NCBI Summary for CTSH	The protein encoded by this gene is a lysosomal cysteine proteinase important in the overall degradation of lysosomal proteins. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. The encoded protein, which belongs to the peptidase C1 protein family, can act both as an aminopeptidase and as an endopeptidase. Increased expression of this gene has been correlated with malignant progression of prostate tumors. Alternate splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]
UniProt Comments for CTSH	CTSH: Important for the overall degradation of proteins in lysosomes. Belongs to the peptidase C1 family. Protein type: EC 3.4.22.16; Protease Chromosomal Location of Human Ortholog: 15q25.1 Cellular Component: cytosol; extracellular space; lysosome Molecular Function: aminopeptidase activity; caspase activator activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; endopeptidase activity; HLA-A specific activating MHC class I receptor activity; peptidase activity; protein binding; serine-type endopeptidase activity Biological Process: adaptive immune response; antigen processing and presentation; cellular protein metabolic process; immune response-regulating signal transduction; membrane protein proteolysis; metanephros development; negative regulation of apoptosis; positive regulation of angiogenesis; positive regulation of cell migration; positive regulation of cell proliferation; protein destabilization; proteolysis; proteolysis involved in cellular protein catabolic process; response to retinoic acid; surfactant homeostasis; T cell mediated cytotoxicity; zymogen activation
Research Articles on CTSH	**1.** In conclusion, CTSH/rs3825932 and ERBB3/rs2292239 SNPs were associated with reduced risk of progression to proliferative diabetic retinopathy and two-step progression of diabetic retinopathy on the ETDRS scale accordingly.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/ctsh/9226839