CTSH Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTSH, Polyclonal Antibody
Full Product Name	CTSH Antibody, FITC conjugated
Product Gene Name	anti-CTSH antibody
Product Synonym Names	Pro-cathepsin H; Cathepsin H mini chainCathepsin H; Cathepsin H heavy chain; Cathepsin H light chain; CTSH; CPSB
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: CTSH (MBS7047977) FITC Conjugated Antibody: CTSH (MBS7047979)
Molecular Weight	37,394 Da
OMIM	X16832 mRNA
3D Structure	ModBase 3D Structure for P09668
Immunogen	Recombinant Human Pro-cathepsin H protein (116-219AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	FITC
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-13988 / sc-6496
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CTSH antibody	ELISA (EIA)
Related Product Information for anti-CTSH antibody	MBS7047979 is an antibody targeting CTSH. Also known as CTSH Antibody, FITC conjugated. Reactive in Human. Host: Rabbit. Important for the overall degradation of proteins in lysosomes.
Other Notes	Small volumes of anti-CTSH antibody 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 #	23110955

NCBI GeneID	1512
NCBI Accession #	NP_004381.2
UniProt Primary Accession #	P09668
UniProt Secondary Accession #	Q96NY6; Q9BUM7; B2RBK0
UniProt Related Accession #	P09668
GenBank Nucleotide #	NM_004390.4
NCBI Official Full Name	pro-cathepsin H isoform a preproprotein
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.** Especially, rs3825932 in CTSH has integrative functional evidence supporting the association with type 1 diabetes mellitus.
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