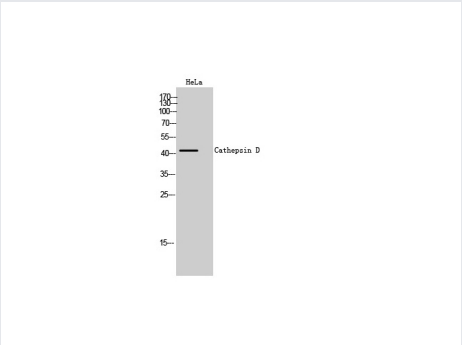
Cathepsin D (CTSD) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cathepsin D (CTSD), Polyclonal Antibody
Full Product Name	Cathepsin D Polyclonal Antibody
Product Gene Name	anti-CTSD antibody
Product Synonym Names	CTSD; CPSD; Cathepsin D
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Antigen Affinity Purified
Concentration	1 mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 45 Observed MW: 44
OMIM	116840
Immunogen	Synthesized peptide derived from the Internal region of human Cathepsin D.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Product Categories/Family for anti-CTSD antibody	Cancer; Cell biology; Epigenetics
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CTSD antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CTSD antibody	WB: 1:500-1:2000, IHC: 1:50-1:200, ELISA: 1:5000-1:20000
Related Product Information for anti-CTSD antibody	MBS2535735 is an antibody targeting CTSD. Also known as Cathepsin D Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-CTSD 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.



Western Blot (WB) of anti-CTSD antibody
Western Blot analysis of Hela cells with Cathepsin D Polyclonal Antibody.

ADDITIONAL DETAILS

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

NCBI GI #	4503143
NCBI GeneID	1509
NCBI Accession #	NP_001900.1
UniProt Secondary Accession #	Q6IB57
UniProt Related Accession #	P07339
GenBank Nucleotide #	NM_001909.4
NCBI Official Full Name	cathepsin D preproprotein
NCBI Official Synonym Full Names	cathepsin D
NCBI Official Symbol	CTSD
NCBI Official Synonym Symbols	CPSD; CLN10; HEL-S-130P
UniProt Protein Name	Cathepsin D
Protein Family	Aspartic-type endopeptidase
UniProt Gene Name	CTSD
UniProt Synonym Gene Names	CPSD
UniProt Entry Name	CATD_HUMAN
NCBI Protein Information	cathepsin D
NCBI Summary for CTSD	This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease. [provided by RefSeq, Nov 2015]

UniProt Comments for CTSD	CTSD: Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease. Consists of a light chain and a heavy chain. Belongs to the peptidase A1 family. Protein type: Protease; Autophagy; EC 3.4.23.5; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: extracellular matrix; extracellular region; extracellular space; lipid raft; lysosomal lumen; lysosome; melanosome Molecular Function: aspartic-type endopeptidase activity; protein binding Biological Process: antigen processing and presentation of exogenous peptide antigen via MHC class II; autophagy; collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; protein catabolic process; proteolysis Disease: Ceroid Lipofuscinosis, Neuronal, 10
Research Articles on CTSD	**1.** the clues provided by the yeast model unveiled a novel CatD function in the degradation of damaged mitochondria when autophagy is impaired, which protects colorectal cancer cells from acetate-induced apoptosis.
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