

Mouse CTSD Monoclonal Antibody | anti-CTSD antibody

CTSD Antibody

CATALOG # AAA290942	HOST Mouse	REACTIVITY HumanPredicted: Mouse, Bovine	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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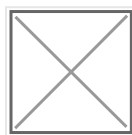
PRODUCT SYNONYMS

CTSD; Monoclonal Antibody; CTSD Antibody; CPSD; Cathepsin D; Cathepsin D light chain; Cathepsin D heavy chain; anti-CTSD antibody

PRODUCT SPECIFICATIONS

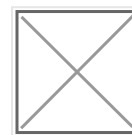
Host	Mouse
Reactivity	Human Predicted: Mouse, Bovine
Clonality	Monoclonal
Isotype	IgG1
Specificity	Purified His-tagged CTSD protein was used to produced this monoclonal antibody.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	412
Applicable Applications for anti-CTSD antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Function	Acid protease active in intracellular proteinbreakdown. Plays a role in APP processingfollowing cleavage and activation by ADAM30which leads to APP degradation (PubMed:).Involved in the pathogenesis of severaldiseases such as breast cancer and possiblyAlzheimer disease.
Cellular Location	Lysosome. Melanosome. Secreted,extracellular space. Note=Identified by massspectrometry in melanosome fractions fromstage I to stage IV. In aortic samples,detected as an extracellular protein looselybound to the matrix (PubMed:20551380)
Tissue Location	Expressed in the aorta extracellular space (atprotein level) (PubMed:20551380). Expressedin liver (at protein level) (PubMed:1426530).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohiostchemistry)

Immunohistochemical analysis of paraffin-embedded H. liver section using CTSD Antibody(AAA290942). AAA290942 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



WB (Western Blot)

Western blot analysis of lysates from MCF-7,U-251 MG,HepG2 cell line (from left toright), using CTSD Antibody(AAA290942). AAA290942 was diluted at 1:1000 at each lane. Agoat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-CTSD antibody	Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.
References	Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011). Faust P.L., et al. Proc. Natl. Acad. Sci. U.S.A. 82:4910-4914(1985). Westley B.R., et al. Nucleic Acids Res. 15:3773-3786(1987). Redecker B., et al. DNA Cell Biol. 10:423-431(1991). Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503143
NCBI GeneID	1509
NCBI Accession #	NP_001900.1
NCBI GenBank Nucleotide #	NP_001900.1
UniProt Accession #	P07339
Molecular Weight	Calculated MW: H = 45KDa
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
NCBI Protein Information	cathepsin D
UniProt Protein Name	Cathepsin D
UniProt Gene Name	CTSD
UniProt Synonym Gene Names	CPSD
UniProt Entry Name	CATD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.