

Rabbit anti-Mouse Cathepsin D Monoclonal Antibody | anti-CTSD antibody

Recombinant Anti-Cathepsin D Antibody, Rabbit Monoclonal

CATALOG # AAA257091	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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PRODUCT SYNONYMS

Cathepsin D; Monoclonal Antibody; Recombinant Anti-Cathepsin D Antibody; Rabbit Monoclonal; Cathepsin D/CTSD Antibody; Rabbit MAb; cathepsin D; Anti-CatD Antibody; Anti-CD Antibody; anti-CTSD antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	102
Specificity	Mouse Cathepsin D/CTSD
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CTSD antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse Cathepsin D/CTSD Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse Cathepsin D/CTSD (rM Cathepsin D/CTSD).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-CTSD rabbit monoclonal antibody at 1:500 dilution Lane A: MCF7 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 45 kDa Observed band size: 45 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

Mouse CTSD was immunoprecipitated using: Lane A: 0.5 mg MCF-7 Whole Cell Lysate Lane B: 0.5 mg HepG2 Whole Cell Lysate 0.5 uL anti-Mouse CTSD rabbit monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Mouse CTSD rabbit monoclonal antibody, at 1:500 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 45 kDa Observed band size: 45 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CTSD antibody	Cathepsin D (CTSD), a well known lysosomal aspartyl protease and belongs to the peptidase C1 family, which is a normal and major component of lysosomes, and is found in almost all cells and tissues of mammals. Its mostly described function is intracellular catabolism in lysosomal compartments, other physiological effect include hormone and antigen processing. Cathepsin D has a specificity similar to but narrower than that of pepsin A. Cathepsin D plays an important role in the degradation of proteins, the generation of bioactive proteins, antigen processing, etc. Among different role in cell physiology, a new function of this enzyme is examined. Cathepsin D is an important regulator of apoptotic pathways in cells. It acts at different stage of intrinsic and extrinsic pathway of apoptosis. In addition, CTSD secreted from human prostate carcinoma cells are responsible for the generation of angiostatin, a potent endogenous inhibitor of angiogenesis, suggesting its contribution to the prevention of tumor growth and angiogenesis-dependent growth of metastases.
References	Fusek M, et al. (2005) Dual role of cathepsin D: ligand and protease. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 149(1): 43-50. Minarowska A, et al. (2007) Regulatory role of cathepsin D in apoptosis. Folia Histochem Cytobiol. 45(3): 159-63. Zaidi N, et al. (2008) Cathepsin D: a cellular roadmap. Biochem Biophys Res Commun. 376(1): 5-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6753556
NCBI GeneID	13033
NCBI Accession #	NP_034113.1
NCBI GenBank Nucleotide #	NM_009983.2
UniProt Accession #	P18242
Molecular Weight	44,954 Da
NCBI Official Full Name	cathepsin D
NCBI Official Synonym Full Names	cathepsin D
NCBI Official Symbol	Ctsd
NCBI Official Synonym Symbols	CD; CatD
NCBI Protein Information	cathepsin D
UniProt Protein Name	Cathepsin D
UniProt Gene Name	Ctsd

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cathepsin-d-antibody-clone-102-immunoprecipitation-western-blot-elisa/257091>