

Rabbit anti-Mouse Cathepsin L Polyclonal Antibody | anti-CTSL antibody

Anti-Cathepsin L Antibody, Rabbit Polyclonal

CATALOG # AAA257052	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry, ELISA
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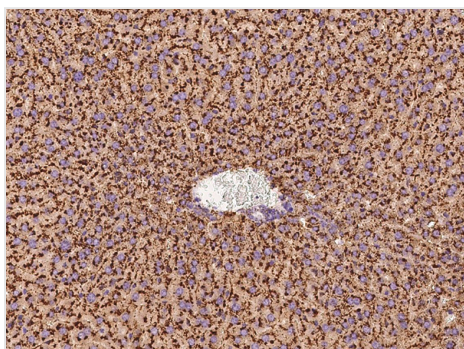
PRODUCT SYNONYMS

Cathepsin L; Polyclonal Antibody; Anti-Cathepsin L Antibody; Rabbit Polyclonal; Cathepsin L/CTSL Antibody; Rabbit PAb; Antigen Affinity Purified; cathepsin L; Anti-1190035F06Rik Antibody; Anti-Ctsl1 Antibody; Anti-fs Antibody; Anti-MEP Antibody; Anti-nkt Antibody; anti-CTSL antibody

PRODUCT SPECIFICATIONS

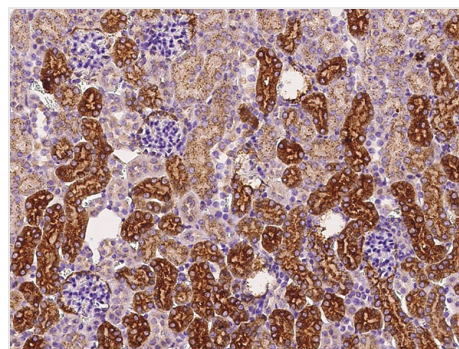
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Cathepsin L/CTSL
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CTSL antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Mouse Cathepsin L/CTSL Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Cathepsin L/CTSL (rM Cathepsin L/CTSL). Cathepsin L/CTSL specific IgG was purified by Mouse Cathepsin L/CTSL affinity chromatography.
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



IHC (Immunohistochemistry)

Immunochemical staining of mouse CTSL in mouse liver with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of mouse CTSL in mouse kidney with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-CTSL antibody	Cathepsin L is a lysosomal cysteine protease that plays a major role in intracellular protein catabolism, and is potent in degrading collagen, laminin, elastin, as well as alpha-1 protease inhibitor and other structural proteins of basement membranes. It is secreted by liver flukes at all stages of their development in the mammalian host, are believed to play important roles in facilitating parasite migration (tissue degradation), feeding and immuno-evasion. Like many proteases, Cathepsin L is synthesized as an inactive preproenzyme, and cleavage of the 96-residue proregion is necessary to generate the fully active 221-residue mature enzyme. Studies have demonstrated that cleavage of the proregion occur autocatalytically under acidic conditions. The enzyme takes part in nutrient acquisition by catabolizing host proteins to absorbable peptides, facilitates the migration of the parasite through the host intestine and liver by cleaving interstitial matrix proteins such as fibronectin, laminin and native collagen and is implicated in the inactivation of host immune defenses by cleaving immunoglobulins. Recently, Cathepsin L has been shown to suppress Th1 immune response in infected laboratory animals making them susceptible to concurrent bacterial infections. Cathepsin L is synthesized in large amounts and secreted by many malignantly transformed cells, and induced by growth factors and tumor promoters. In addition to its role in protein degradation, evidence has accumulated for the participation of Cathepsin L in various physiological and pathological processes, such as tumor invasion and metastasis, bone resorption, spermatogenesis, and arthritis. Accordingly, Cathepsin L may prove useful as a or prognostic marker of human tumor malignancy.
References	Mulcahy G, et al. (2001) Cathepsin L proteinases as vaccines against infection with <i>Fasciola hepatica</i> (liver fluke) in ruminants. <i>Res Vet Sci.</i> 70(1): 83-6. Dixit AK, et al. (2008) Immunodiagnostic/protective role of cathepsin L cysteine proteinases secreted by <i>Fasciola</i> species. <i>Vet Parasitol.</i> 154(3-4): 177-84. Leto G, et al. (2010) Cathepsin L in metastatic bone disease: therapeutic implications. <i>Biol Chem.</i> 391(6): 655-64.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6753558
NCBI GeneID	13039
NCBI Accession #	NP_034114.1
NCBI GenBank Nucleotide #	NM_009984.4
UniProt Accession #	P06797; Q91UZ0
Molecular Weight	37,547 Da
NCBI Official Full Name	cathepsin L1 preproprotein
NCBI Official Synonym Full Names	cathepsin L
NCBI Official Symbol	Ctsl
NCBI Official Synonym Symbols	fs; MEP; nkt; CatL; Ctsl1; 1190035F06Rik
NCBI Protein Information	cathepsin L1
UniProt Protein Name	Cathepsin L1
UniProt Gene Name	Ctsl
UniProt Synonym Gene Names	Ctsl1; MEP

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/polyclonal/cathepsin-l-antibody-immunohistochemistry-elisa/257052>