

Rabbit anti-Mouse Cathepsin S Polyclonal Antibody

Anti-Cathepsin S Antibody, Rabbit Polyclonal

CATALOG # AAA259136	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry, ELISA
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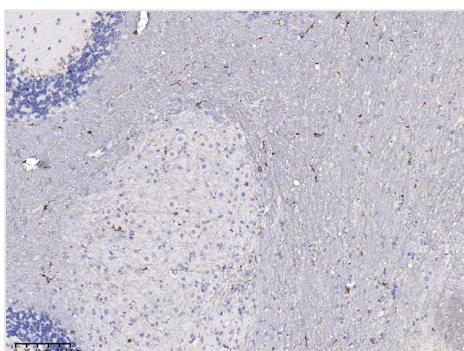
PRODUCT SYNONYMS

Cathepsin S; Polyclonal Antibody; Anti-Cathepsin S Antibody; Rabbit Polyclonal; cathepsin S; Anti-Cat S Antibody; Anti-Cats Antibody; anti-Cathepsin S antibody

PRODUCT SPECIFICATIONS

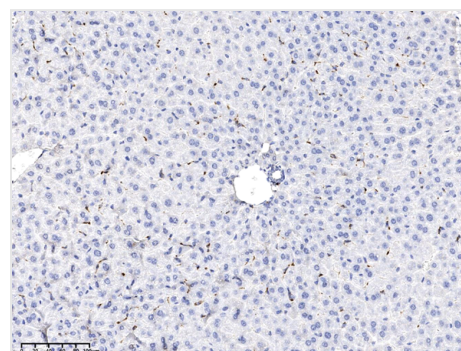
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Cathepsin S
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-Cathepsin S antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant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

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of Mouse Cathepsin S in Mouse brain with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

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

ADDITIONAL INFORMATION

Related Product Information for anti-Cathepsin S antibody	Cathepsin S (CTSS), one of the lysosomal proteinases, has many important physiological functions in the nervous system, especially in process of extracellular matrix degradation and endocellular antigen presentation. CTSS is synthesized as inactive precursor of 331 amino acids consisting of a 15-aa signal peptide, a propeptide of 99 aa, and a mature polypeptide of 217 aa. It is activated in the lysosomes by a proteolytic cleavage of the propeptide. Cathepsin S is expressed in the lysosome of antigen presenting cells, primarily dendritic cells, B-cells and macrophages. Compared with other lysosomal cysteine proteases, cathepsin S has displayed some unique characteristics. Cathepsin S is most well known for its critical function in the proteolytic digestion of the invariant chain chaperone molecules, thus controlling antigen presentation to CD4+ T-cells by major histocompatibility complex (MHC) class II molecules or to NK1.1+ T-cells via CD1 molecules. Cathepsin S also appears to participate in direct processing of exogenous antigens for presentation by MHC class II to CD4+ T-cells, or in cross-presentation by MHC class I molecules to CD8+ T-cells. In addition, although direct evidence is still lacking, in its secreted form cathepsin S is implicated in degradation of the extracellular matrix, which may contribute to the pathology of a number of diseases, including arthritis, atherosclerosis, neurological diseases and chronic obstructive pulmonary disease.
References	Liu W, et al. (2004) Cysteine protease cathepsin S as a key step in antigen presentation. Drug News Perspect. 17(6): 357-63. Thurmond RL, et al. (2005) Cathepsin S inhibitors as novel immunomodulators. Curr Opin Investig Drugs. 6(5): 473-82. Wang DM, et al. (2008) Cathepsin S in pathogenesis of neurological diseases. Zhejiang Da Xue Xue Bao Yi Xue Ban. 37(4): 422-6.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/cathepsin-s-antibody-immunohistochemistry-elisa/259136>