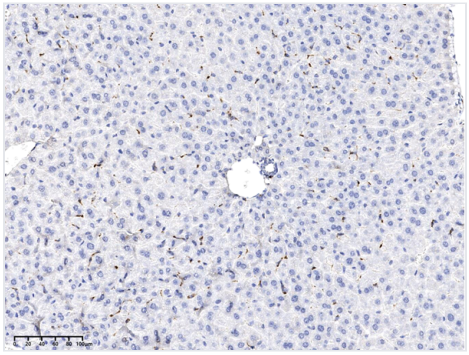
Cathepsin S Antibody – Rabbit Polyclonal

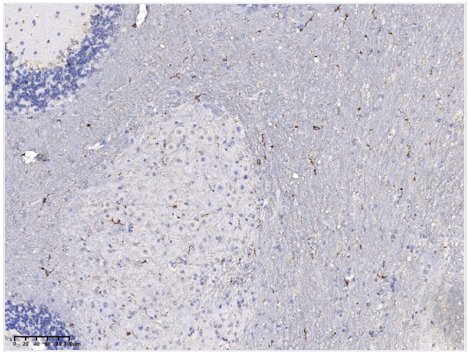
PRODUCT OVERVIEW

Product Name	Cathepsin S, Polyclonal Antibody
Full Product Name	Anti-Cathepsin S Antibody, Rabbit Polyclonal
Product Synonym Names	cathepsin S; Anti-Cat S Antibody; Anti-Cats Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse Cathepsin S
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.
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.
Applications Tested/Suitable for anti-Cathepsin S antibody	ELISA (EIA), Immunohistochemistry-Paraffin (IHC-P)
Application Notes for anti-Cathepsin S antibody	ELISA: 1:5000-1:10000 IHC-P: 1:500-1:2000
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.
Product References and Citations for anti-Cathepsin S antibody	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.

Other Notes	Small volumes of anti-Cathepsin S 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.
Searchable Terms for Cathepsin S purchase	MBS8125644 is an antibody targeting Cathepsin S. Also known as Anti-Cathepsin S Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.



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



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

ADDITIONAL DETAILS

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

Protein Family	Cathepsin
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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