

**Cathepsin S Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10270****Specification**

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**Cathepsin S Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P25774</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	37496

**Cathepsin S Antibody - Additional Information****Gene ID** 1520

Positive Control	Western Blot: Jurkat cell lysate. IHC: Lung tissue
Application & Usage	Western blotting (1-4 µg/ml), immunoprecipitation (20 µg/ml), and Immunohistochemistry (20 µg/ml). However, the optimal conditions should be determined individually.

**Other Names**  
CTSS, MGC3886**Target/Specificity**  
Cathepsin S**Antibody Form**  
Liquid**Appearance**  
Colorless liquid**Formulation**  
100 µg (0.5 mg/ml) affinity purified rabbit anti-cathepsin S polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.**Handling**  
The antibody solution should be gently mixed before use.**Reconstitution & Storage**  
-20 °C**Background Descriptions**

**Precautions**

Cathepsin S Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Cathepsin S Antibody - Protein Information**

**Name** CTSS

**Function**

Thiol protease. Key protease responsible for the removal of the invariant chain from MHC class II molecules and MHC class II antigen presentation (PubMed:<a href="http://www.uniprot.org/citations/30612035" target="\_blank">30612035</a>). The bond-specificity of this proteinase is in part similar to the specificities of cathepsin L.

**Cellular Location**

Lysosome. Secreted. Cytoplasmic vesicle, phagosome

**Cathepsin S Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Cathepsin S Antibody - Images****Cathepsin S Antibody - Background**

Cathepsin family of proteases contains several diverse classes of enzymes. The cysteine protease class comprises cathepsin B, H, K, L, O, and S. The aspartyl protease class contains cathepsin D and E. Cathepsin G belongs to the serine protease class. Cathepsins are involved in various cellular events such as peptide biosynthesis, protein degradation, and apoptosis. Cathepsin S has been shown to be present in aveloar macrophages.