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Cathepsin S Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10270

Specification

Cathepsin S Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	P25774
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:30612035). 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 Cytomety
- 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.