

CTSD Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AW5191**Specification**

CTSD Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC-P,E |
| Primary Accession | P07339 |
| Reactivity | Human |
| Predicted | Mouse, Bovine |
| Host | Mouse |
| Clonality | Monoclonal |
| Calculated MW | H=45 KDa |
| Isotype | IgG1 |
| Antigen Source | Human |

CTSD Antibody - Additional Information**Gene ID** 1509**Antigen Region**
1-402**Other Names**

CTSD;CPSD; Cathepsin D; Cathepsin D light chain; Cathepsin D heavy chain

Dilution

WB~~1:1000

IHC-P~~1:25

Target/Specificity

Purified His-tagged CTSD protein was used to produced this monoclonal antibody.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

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

CTSD Antibody - Protein Information**Name** CTSD

Synonyms CPSP

Function

Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation (PubMed:27333034). Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

Cellular Location

Lysosome. Melanosome. Secreted, extracellular space. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380)

Tissue Location

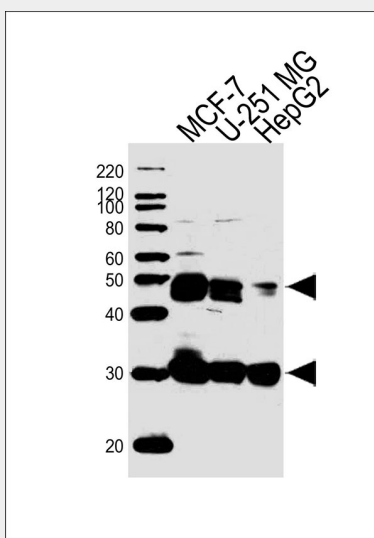
Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).

CTSD Antibody - Protocols

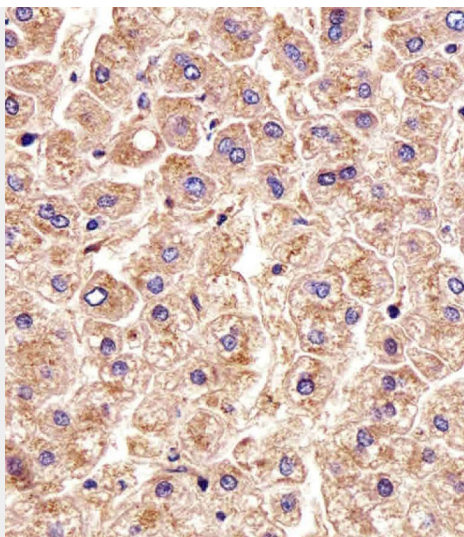
Provided below are standard protocols that you may find useful for product applications.

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

CTSD Antibody - Images



Western blot analysis of lysates from MCF-7, U-251 MG, HepG2 cell line (from left to right), using CTSD Antibody (Cat. #AW5191). AW5191 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.



Immunohistochemical analysis of paraffin-embedded H. liver section using CTSD Antibody(Cat#AW5191). AW5191 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

CTSD Antibody - Background

Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

CTSD Antibody - References

- Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).
- Faust P.L., et al. Proc. Natl. Acad. Sci. U.S.A. 82:4910-4914(1985).
- Westley B.R., et al. Nucleic Acids Res. 15:3773-3786(1987).
- Redecker B., et al. DNA Cell Biol. 10:423-431(1991).
- Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.