

# CTSD Antibody

Mouse Monoclonal Antibody (Mab) Catalog # AW5191

## **Product Information**

Application	IHC-P, WB
Primary Accession	<u>P07339</u>
Reactivity	Human
Predicted	Mouse, Bovine
Host	Mouse
Clonality	Monoclonal
Calculated MW	44552
Isotype	IgG1
Antigen Source	Human

### **Additional Information**

Gene ID	1509
Antigen Region	1-402
Other Names	CTSD;CPSD; Cathepsin D; Cathepsin D light chain; Cathepsin D heavy chain
Dilution	IHC-P~~1:100~500 WB~~1:1000
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.

#### **Protein Information**

Name	CTSD
Synonyms	CPSD
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: <u>27333034</u> ). 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).

#### Background

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

#### 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.

#### 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 20ug 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.