

CTSD Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5009

Product Information

Application IF, IHC-P, WB **Primary Accession** P07339 Reactivity Human Host Rabbit Clonality polyclonal Calculated MW 44552 Isotype Rabbit IgG **Antigen Source HUMAN**

Additional Information

Gene ID 1509

Other Names Cathepsin D, Cathepsin D light chain, Cathepsin D heavy chain, CTSD, CPSD

Dilution IF~~1:25 IHC-P~~1:100~500 WB~~1:1000

Target/Specificity This antibody is generated from a rabbit immunized with a KLH conjugated

synthetic peptide between amino acids from human.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

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: 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).

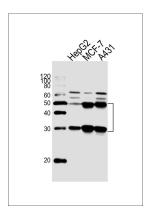
Background

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

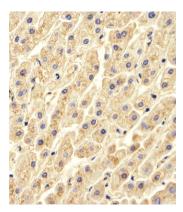
References

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. Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Images

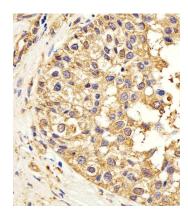


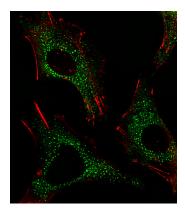
Western blot analysis of lysates from HepG2, MCF-7, A431 cell line (from left to right), using CTSD Antibody(Cat. #AW5009). AW5009 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded H.liver section using CTSD(Cat#AW5009). AW5009 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

Immunohistochemical analysis of paraffin-embedded H.breast carcinoma section using CTSD(Cat#AW5009). AW5009 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.





Fluorescent image of HepG2 cells stained with CTSD(Cat#AW5009). AW5009 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).

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