

### CTSD(heavy chain) Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5367

#### **Specification**

### CTSD(heavy chain) Antibody (Center) - Product Information

Application WB,E
Primary Accession P07339

Other Accession P18242, P80209

Reactivity Human

Predicted Bovine, Mouse

Host Rabbit Clonality Polyclonal

Calculated MW H=45;M=45;Rat=45 KDa

Isotype Rabbit IgG
Antigen Source HUMAN

# CTSD(heavy chain) Antibody (Center) - Additional Information

**Gene ID 1509** 

**Antigen Region** 

241-273

### **Other Names**

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

### **Dilution**

WB~~1:1000

#### **Target/Specificity**

This CTSD(heavy chain) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 241-273 amino acids from the Central region of human CTSD(heavy chain).

#### **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(heavy chain) Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### CTSD(heavy chain) Antibody (Center) - 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:<a href="http://www.uniprot.org/citations/27333034" target="\_blank">27333034</a>). 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**

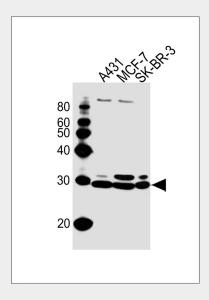
Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).

#### CTSD(heavy chain) Antibody (Center) - 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

#### CTSD(heavy chain) Antibody (Center) - Images



All lanes : Anti-CTSD(heavy chain) Antibody (Center) at 1/1000 dilution Lane 1: A431 whole cell lysates Lane 2: MCF-7 whole cell lysates Lane 3: SK-BR-3 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution



Predicted band size: 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

# CTSD(heavy chain) Antibody (Center) - Background

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

# CTSD(heavy chain) Antibody (Center) - 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.