

**Cathepsin D HC Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51129**

**Specification**

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**Cathepsin D HC Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P07339</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>27 KDa</b>
Antigen Region	<b>131 - 190</b>

**Cathepsin D HC Antibody - Additional Information**

**Gene ID** 1509

**Other Names**

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

**Target/Specificity**

KLH conjugated synthetic peptide derived from human Cathepsin D HC

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Cathepsin D HC Antibody - 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

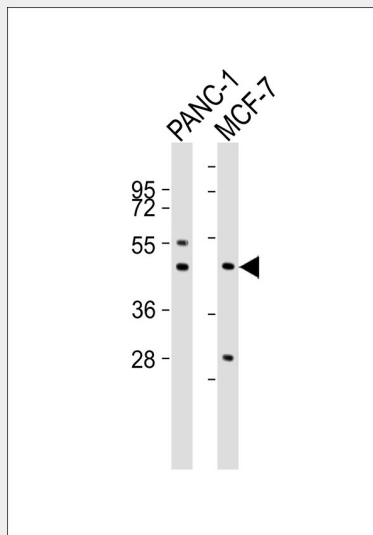
Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in liver (at protein level) (PubMed:1426530).

#### Cathepsin D HC 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](#)

#### Cathepsin D HC Antibody - Images



All lanes : Anti-Cathepsin D HC Antibody at 1:1000 dilution Lane 1: PANC-1 whole cell lysates Lane 2: MCF-7 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.

#### Cathepsin D HC Antibody - Background

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

#### Cathepsin D HC Antibody - 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.

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