

# Cathepsin D Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51130

## Product Information

---

<b>Application</b>	WB, IP, IHC-P
<b>Primary Accession</b>	<a href="#">P07339</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	44552

## Additional Information

---

<b>Gene ID</b>	1509
<b>Other Names</b>	Cathepsin D, Cathepsin D light chain, Cathepsin D heavy chain, CTSD, CPSD
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Cathepsin D. The exact sequence is proprietary.
<b>Dilution</b>	WB~~1:1000 IP~~N/A IHC-P~~N/A
<b>Format</b>	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

---

<b>Name</b>	CTSD
<b>Synonyms</b>	CPSD
<b>Function</b>	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="#">27333034</a> ). Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.
<b>Cellular Location</b>	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)
<b>Tissue Location</b>	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.

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