

# Cathepsin D Antibody

Rabbit mAb

Catalog # AP90378

## Product Information

<b>Application</b>	WB, IHC, IF, FC, ICC, IP, IHF
<b>Primary Accession</b>	<a href="#">P07339</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	CATD; Cathepsin D; Cathepsin D heavy chain; Cathepsin D light chain; ceroid-lipofuscinosis, neuronal 10; CLN10; CPSD; CTSD; lysosomal aspartyl peptidase; lysosomal aspartyl protease; MGC2311
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	44552

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:20
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Cathepsin D
<b>Description</b>	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## 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

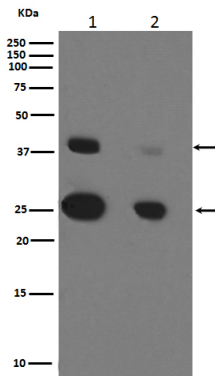
samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380)

## Tissue Location

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

## Images

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Western blot analysis of Cathepsin D expression in (1)MCF-7 cell lysate;(2)SKBR-3 cell lysate.

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Immunohistochemical analysis of paraffin-embedded human ovarian cancer, using Cathepsin D Antibody.

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