

Datasheet for ABIN3042775

anti-Cathepsin D antibody (AA 65-410)

3 Images

1 Publication



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Overview

Quantity:	100 µg
Target:	Cathepsin D (CTSD)
Binding Specificity:	AA 65-410
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cathepsin D antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Cathepsin D(CTSD) detection. Tested with WB, IHC-P in Mouse,Rat.
Immunogen:	E.coli-derived mouse Cathepsin D recombinant protein (Position: E65-L410). Mouse Cathepsin D shares 85% and 91% amino acid (aa) sequences identity with human and rat Cathepsin D, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Cathepsin D(CTSD) detection. Tested with WB, IHC-P in Mouse,Rat.</p> <p>Gene Name: cathepsin D</p> <p>Protein Name: Cathepsin D</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: Cathepsin D (CTSD)

Alternative Name: CTSD ([CTSD Products](#))

Background: Cathepsin D is a protein that in humans is encoded by the CTSD gene. This proteinase is a member of the peptidase C1 family, having a specificity similar to but narrower than that of pepsin A. It is mapped to 11p15.5. The cDNA encodes a 412-amino acid protein with 20 and 44 amino acids in a pre- and prosegment, respectively. Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease and it has been considered as a breast cancer tumor marker.

Synonyms: CatD antibody|CATD_HUMAN antibody|Cathepsin D heavy chain antibody|Cathepsin D light chain antibody|CathepsinD antibody|CD antibody|Ceroid lipofuscinosis neuronal 10 antibody|CLN10 antibody|CPSD antibody|CTSD antibody|Lysosomal aspartyl peptidase antibody|Lysosomal aspartyl protease antibody|MGC2311 antibody

Gene ID: 13033

UniProt: [P18242](#)

Pathways: [Peptide Hormone Metabolism](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, The detection limit for Cathepsin D is approximately 0.25 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

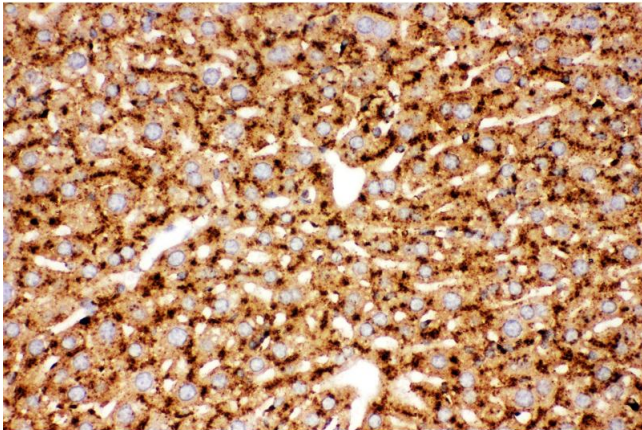
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

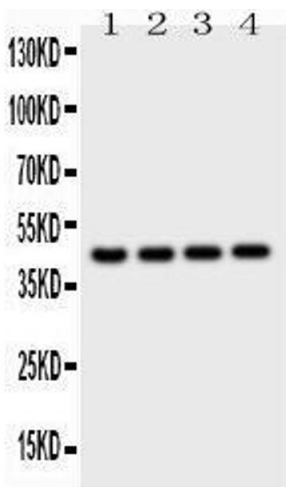
Publications

Product cited in: Zheng, Li, Wang, Wang, Liao, Hu, Fan, Kang, Zeng, Wu, Wu, Zhang, Wang, He et al.: "Inhibition of autophagosome-lysosome fusion by ginsenoside Ro via the ESR2-NCF1-ROS pathway sensitizes esophageal cancer cells to 5-fluorouracil-induced cell death via the CHEK1-mediated DNA damage ..." in: **Autophagy**, Vol. 12, Issue 9, pp. 1593-613, (2017) ([PubMed](#)).



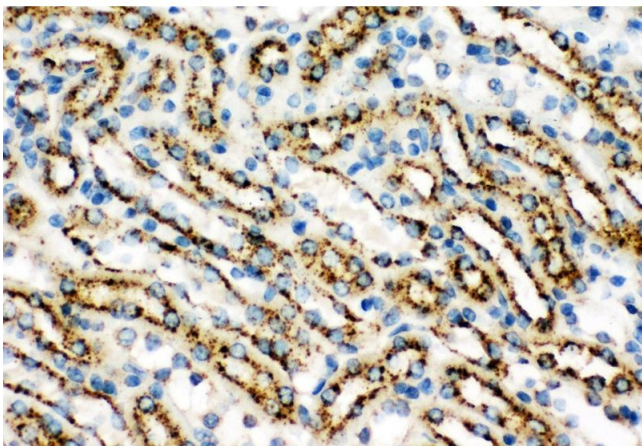
Immunohistochemistry

Image 1. Anti-Cathepsin D Picoband antibody, IHC(P):
Mouse Liver Tissue



Western Blotting

Image 2. Observed bind size: 45KD



Immunohistochemistry

Image 3. Anti-Cathepsin D Picoband antibody, IHC(P):
Mouse Kidney Tissue