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## **Human Cathepsin D antibody**

Catalog Number: ACH0627

## **PRODUCT INFORMATION**

## Catalog number

ACH0627

### Clone No.

4G2

## **Product type**

Monoclonal Antibody

#### UnitProt No.

P07339

### **NCBI Accession No.**

NP 001900

### **Alternative Names**

CTSD, CPSD, Cathepsin D, Lysosomal aspartyl protease, CLN10, Ceroid-lipofuscinosis, Neuronal 10

## **PRODUCT SPECIFICATION**

## **Antibody Host**

Mouse

#### **Reacts With**

Human

### Concentration

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### **Immunogen**

Recombinant human Cathepsin D (21-412 aa) purified from E. coli

## Isotype

IgG2b kappa

## **Purification Note**

By protein-G affinity chromatography

## **Application**

ELISA, WB, IHC

## Usage

The antibody has been tested by ELISA, Western blot and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

### **Storage**



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

The aspartic protease cathepsin D is one of the major proteolytic enzymes in lysosomes. The cathepsin D gene locates on chromosome 11p15. 5 and spans approximately 11 kb with nine exons. Initially synthesized as an inactive precursor of pro-cathepsin D, the enzyme is subsequently converted to its active forms by proteolytic processing. Breast cancer cells, unlike normal cells, secrete high levels of pro-cathepsin D

#### **General References**

Tang, J. (1979) Mol. Cell. Biochem. 26, 93-109.

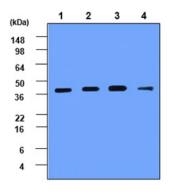
Fujita, H et al., (1991) Biochem. Biophys. Res. Commun. 179, 190-196.

Fusek, M et al., (2005) Biomed Papers 149, 43-50.

Garcia, M et al., (1996) Stem Cells 14, 642-650.

## **DATA**

## Western blot analysis (WB)

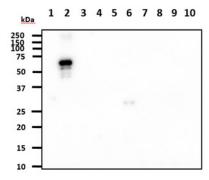


The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cathepsin D antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HepG2 cell lysate Lane 2.: Hep3B cell lysate

Lane 3.: MDA-MB-231 cell lysate

Lane 4.: MCF7 cell lysate



The recombinant proteins (100ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cathepsin D antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant Human CTSB

Lane 2.: Recombinant Human CTSD

Lane 3.: Recombinant Human CTSE

Lane 4.: Recombinant Human CTSF

Lane 5.: Recombinant Human CTSH

Lane 6.: Recombinant Human CTSK

Lane 7. : Recombinant Human CTSL Lane 8. : Recombinant Human CTSS

Lane 9. : Recombinant Human CTSW

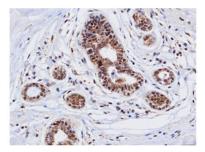
Lane 10.: Recombinant Human CTSZ

**IHC Comment And Pic** 

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Human breast lobule

Paraffin embedded sections of human breast lobule tissue were incubated with anti-human Cathepsin D (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)

