

## Anti-Cathepsin D Antibody (2Y136)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2Y136
Purification:	Protein A

### Applications

1. Immunochemical staining of human CTSD in human lung cancer with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
2. Immunochemical staining of human CTSD in human cirrhosis with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections).
3. Anti-CTSD rabbit monoclonal antibody at 1:500 dilution.

-Lane A: MCF7 Whole Cell Lysate.

-Lane B: A431 Whole Cell Lysate.

-Lane C: HepG2 Whole Cell Lysate.

-Lane D: SKBR3 Whole Cell lysate.

-Lysates/proteins at 30 µg per lane.

-Secondary

-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.

-Developed using the Odyssey technique.

-Performed under reducing conditions.

-Predicted band size:45 kDa.

-Observed band size:31 kDa.

4. Anti-CTSD rabbit monoclonal antibody at 1:500 dilution.

-Lane A: 293T Whole Cell Lysate.

-Lane B: CTSD konckout 293T Whole Cell lysate.

-Lysates/proteins at 30 µg per lane.

-Secondary

-Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.

-Developed using the ECL technique.

-Performed under reducing conditions.

-Predicted band size:45 kDa.

-Observed band size:31 kDa

Verified Activity:

Application: IHC-P,WB

## A DRUG SCREENING EXPERT

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Recommended WB: 1:500-1:2000; IHC-P: 1:100-1:500

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein: Human Cathepsin D / CTSD protein (TMPY-02450)

Antigen Species: Human

Synonyms: HEL-S-130P;CPSD;CLN10;cathepsin D

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### Research Background

Cathepsin D (CTSD), a well known lysosomal aspartyl protease and belongs to the peptidase C1 family, which is a normal and major component of lysosomes, and is found in almost all cells and tissues of mammals. Its mostly described function is intracellular catabolism in lysosomal compartments, other physiological effect include hormone and antigen processing. Cathepsin D has a specificity similar to but narrower than that of pepsin A. Cathepsin D plays an important role in the degradation of proteins, the generation of bioactive proteins, antigen processing, etc. Among different role in cell physiology, a new function of this enzyme is examined. Cathepsin D is an important regulator of apoptotic pathways in cells. It acts at different stage of intrinsic and extrinsic pathway of apoptosis. In addition, CTSD secreted from human prostate carcinoma cells are responsible for the generation of angiostatin, a potent endogenous inhibitor of angiogenesis, suggesting its contribution to the prevention of tumor growth and angiogenesis-dependent growth of metastases.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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