

# Cathepsin D Rabbit mAb

Catalog No: #48833

Package Size: #48833-1 50ul #48833-2 100ul



**SAB**<sup>®</sup>  
Signalway Antibody

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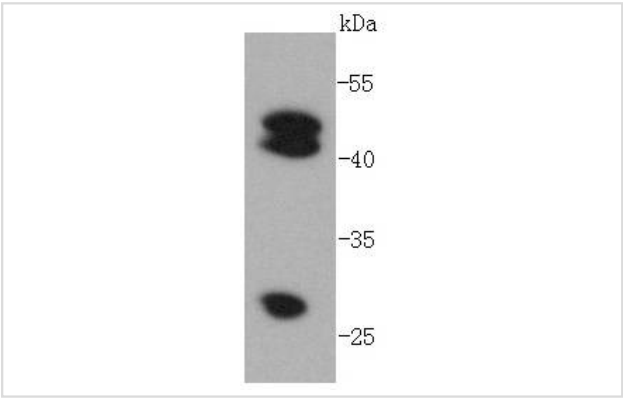
## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Cathepsin D Rabbit mAb                                                                                                                                                                                                                                                                                                                                                |
| Host Species          | Recombinant Rabbit                                                                                                                                                                                                                                                                                                                                                    |
| Clonality             | Monoclonal                                                                                                                                                                                                                                                                                                                                                            |
| Clone No.             | SU0360                                                                                                                                                                                                                                                                                                                                                                |
| Purification          | ProA affinity purified                                                                                                                                                                                                                                                                                                                                                |
| Applications          | WB, ICC, IHC, IP, FC                                                                                                                                                                                                                                                                                                                                                  |
| Species Reactivity    | Hu, Ms                                                                                                                                                                                                                                                                                                                                                                |
| Immunogen Description | recombinant protein                                                                                                                                                                                                                                                                                                                                                   |
| Conjugates            | Unconjugated                                                                                                                                                                                                                                                                                                                                                          |
| Other Names           | CatD antibody CATD_HUMAN antibody Cathepsin D antibody Cathepsin D heavy chain antibody CD antibody Ceroid lipofuscinosis neuronal 10 antibody CLN10 antibody CPSD antibody ctcd antibody Epididymis secretory sperm binding protein Li 130P antibody HEL S 130P antibody Lysosomal aspartyl peptidase antibody Lysosomal aspartyl protease antibody MGC2311 antibody |
| Accession No.         | Swiss-Prot#:P07339                                                                                                                                                                                                                                                                                                                                                    |
| Calculated MW         | 28/43/46 kDa                                                                                                                                                                                                                                                                                                                                                          |
| Formulation           | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.                                                                                                                                                                                                                                                                                                  |
| Storage               | Store at -20°C                                                                                                                                                                                                                                                                                                                                                        |

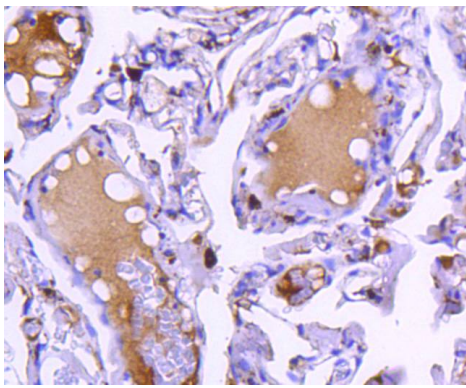
## Application Details

WB: 1:1,000-1:2,000 IHC: 1:100-1:500 ICC: 1:100-1:500FC: 1:10-1:100

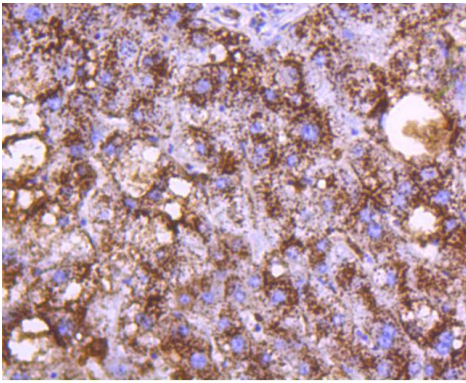
## Images



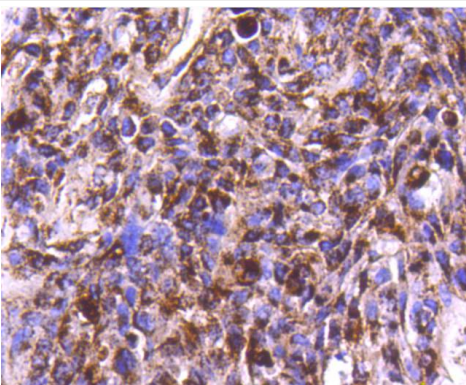
Western blot analysis of Cathepsin D on MCF-7 lysates using anti-Cathepsin D antibody at 1/1,000 dilution.



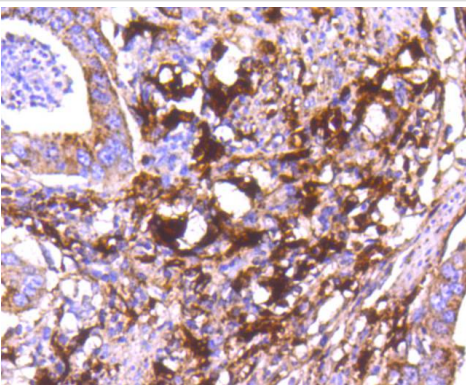
Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Cathepsin D antibody. Counter stained with hematoxylin.



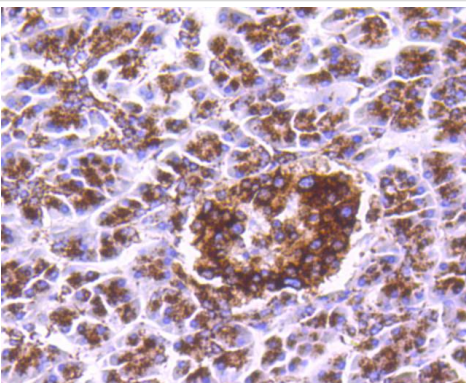
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Cathepsin D antibody. Counter stained with hematoxylin.



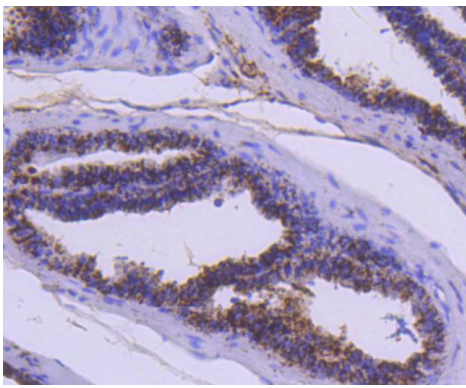
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cathepsin D antibody. Counter stained with hematoxylin.



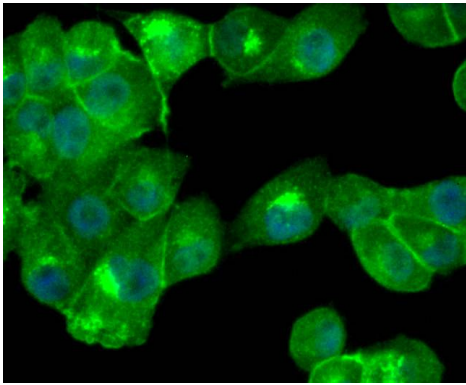
Immunohistochemical analysis of paraffin-embedded human gastric cancer tissue using anti-Cathepsin D antibody. Counter stained with hematoxylin.



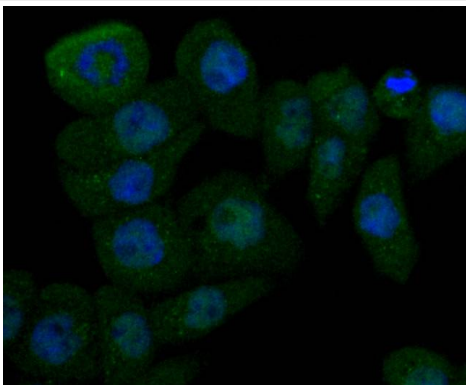
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Cathepsin D antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-Cathepsin D antibody. Counter stained with hematoxylin.



ICC staining Cathepsin D in PANC-1 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cathepsin D in AGS cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

The cathepsin family of proteolytic enzymes contains several diverse classes of proteases. The cysteine protease class comprises cathepsins B, L, H, K, S, and O. The aspartyl protease class is composed of cathepsins D and E. Cathepsin G is in the serine protease class. Most cathepsins are lysosomal and each is involved in cellular metabolism, participating in various events such as peptide biosynthesis and protein degradation. Cathepsins may also cleave some protein precursors, thereby releasing regulatory peptides. The promoter region of the cathepsin D gene contains five Sp1 binding sites and four AP-2 binding sites.

## References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.