



Catalog: OM638929

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# Cathepsin D

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☐ 100 µl

## Product profile

Product name	Cathepsin D
Antibody Type	Primary Antibodies
Product description	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.
Immunogen	Peptide

## Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse
Concentration	1 mg/mL.

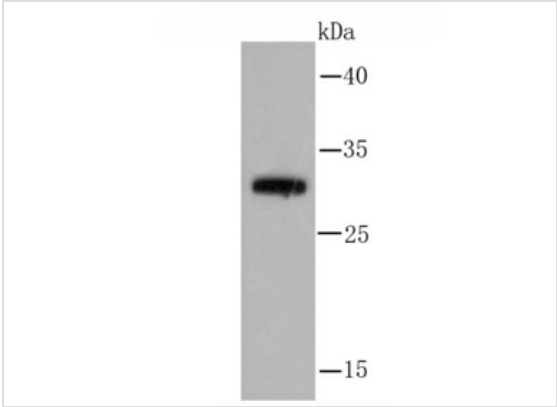
## Target Information

Alternative 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 ctsd antibody Epididymis secretory sperm binding protein Li 130P antibody HEL S 130P antibody Lysosomal aspartyl peptidase antibody Lysosomal aspartyl protease antibody MGC2311 antibody
Molecular Weight(MW)	27 kDa
Cellular Localization	Lysosome. Melanosome. Secreted, extracellular space.

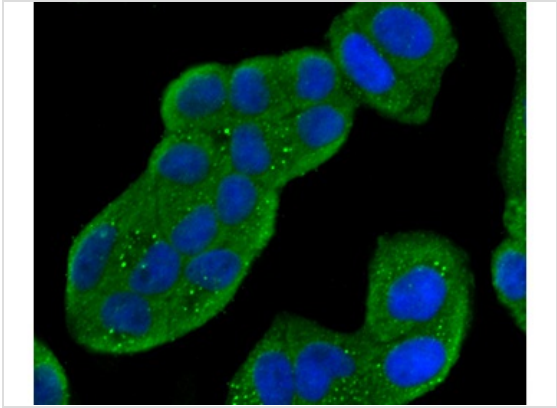
Database Links

SwissProt ID	P07339
	P18242

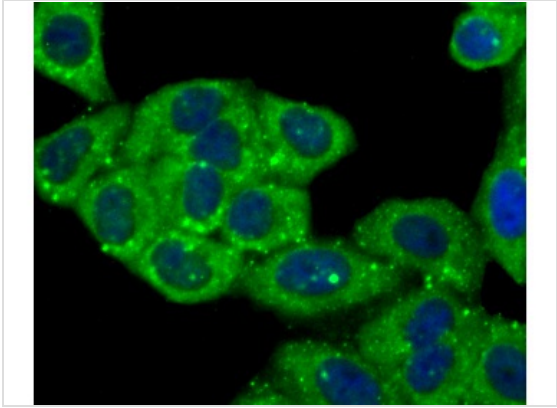
Application



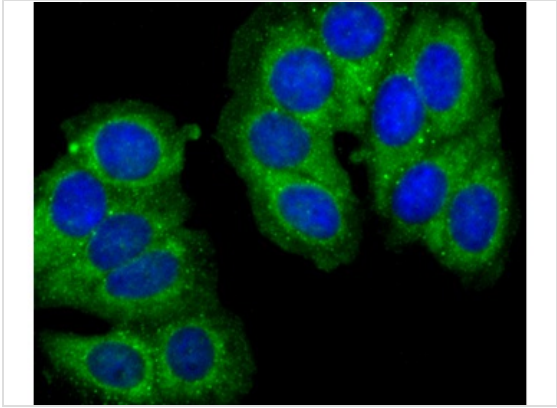
**Application**  
Fig1: Western blot analysis of Cathepsin D on MCF-7 cell lysate using anti-Cathepsin D antibody at 1/1,000 dilution.



**Application**  
Fig2: ICC staining Cathepsin D in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

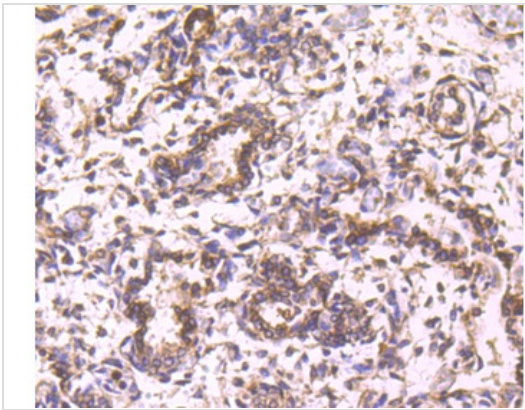


**Application**  
Fig3: ICC staining Cathepsin D in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

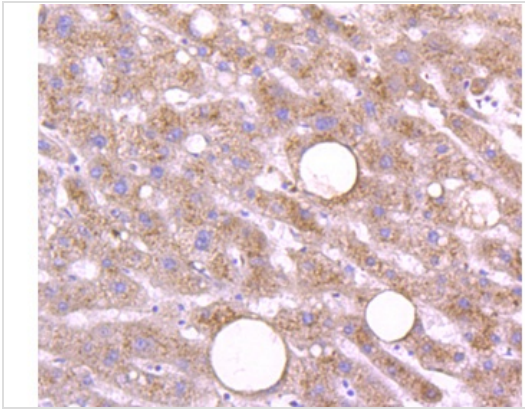


**Application**  
Fig4: ICC staining Cathepsin D in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

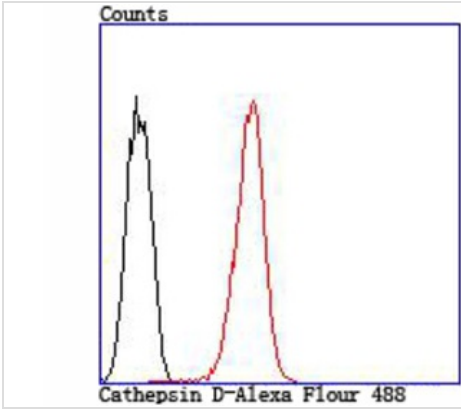
**Application**  
Fig5: Immunohistochemical analysis of paraffin-embedded human lung tissue



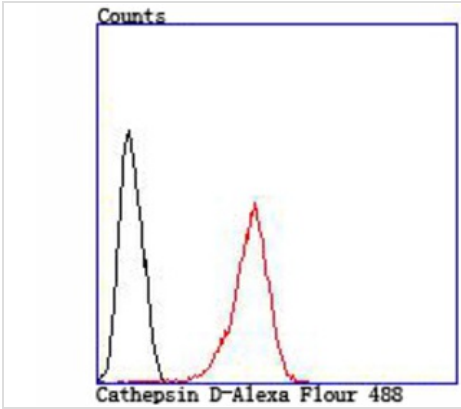
using anti-Cathepsin D antibody. Counter stained with hematoxylin.



**Application**  
Fig6: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Cathepsin D antibody. Counter stained with hematoxylin.



**Application**  
Fig7: Flow cytometric analysis of HepG2 cells with Cathepsin D antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



**Application**  
Fig8: Flow cytometric analysis of MCF-7 cells with Cathepsin D antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Positive Control	MCF-7, Hela, HepG2, human liver tissue, human lung tissue.
Application Notes	WB:1:500
	ICC:1:50-1:200
	IHC:1:50-1:200
	FC:1:50-1:200

### Additional Information

<b>Form</b>	Liquid
<b>Storage Instructions</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage Buffer</b>	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
<b>Note</b>	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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