

For Research Use Only

Cathepsin D Polyclonal antibody

Catalog Number: 55021-1-AP **7 Publications**



Basic Information

Catalog Number:

55021-1-AP

Size:

650 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_001909

GeneID (NCBI):

1509

UNIPROT ID:

P07339

Full Name:

cathepsin D

Calculated MW:

45 kDa

Observed MW:

32 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A431 cells, HepG2 cells, MCF-7 cells

IHC : human liver tissue,

Background Information

CTSD (Cathepsin D) is also named as CPSD, belongs to the peptidase A1 family. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Human CTSD is synthesized as a 52-kDa precursor that is converted into an active 48-kDa single-chain intermediate in the endosomes, and then into a fully active mature form, composed of a 34-kDa heavy chain and a 14-kDa light chain, in the lysosomes. It is a lysosomal acid protease found in neutrophils and monocytes and involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease. (PMID: 27114232, PMID: 30717773, PMID: 30051532)

Notable Publications

Author	Pubmed ID	Journal	Application
Weigang Yuan	36183552	Biochem Biophys Res Commun	WB
Suman Rimal	34663454	Acta Neuropathol Commun	IF
Pengyun Li	34326318	Cell Death Discov	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

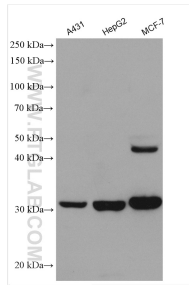
T: 4006900926

E: Proteintech-CN@ptglab.com

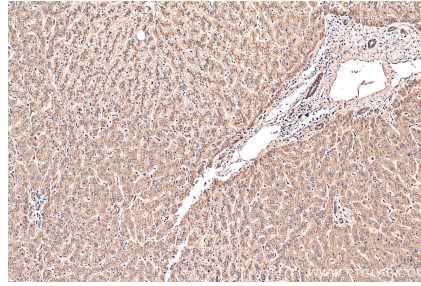
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55021-1-AP (Cathepsin D antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 55021-1-AP (Cathepsin D antibody) at dilution of 1:200 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).