

A4986

Leader in Biomolecular Solutions for Life Science



## Cathepsin L/V/K/H Rabbit mAb

Catalog No.: A4986

Recombinant

2 Publications

### Basic Information

#### Observed MW

38kDa

#### Calculated MW

38kDa

#### Category

SMab Recombinant Monoclonal Antibody

#### Applications

WB, IHC-P, ELISA

#### Cross-Reactivity

Human, Mouse, Rat

#### CloneNo number

ARC1276

### Background

The protein encoded by this gene is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Additionally, this protein cleaves the S1 subunit of the SARS-CoV-2 spike protein, which is necessary for entry of the virus into the cell.

### Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200

### Immunogen Information

#### Gene ID

1514/1515/1513/1512

#### Swiss Prot

P07711/O60911/P43235/P09668

#### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 50-150 of human Cathepsin L/V/K/H (P07711).

#### Synonyms

MEP; CATL; CTSL1; Cathepsin L/V/K/H

### Contact



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

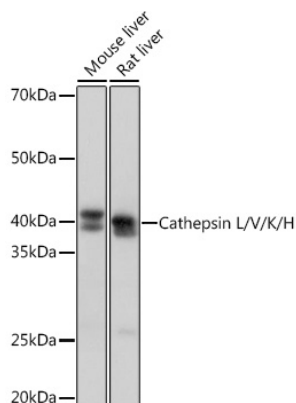
Affinity purification

#### Storage

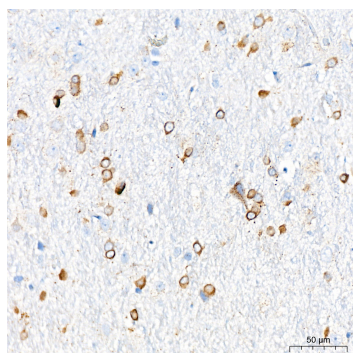
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

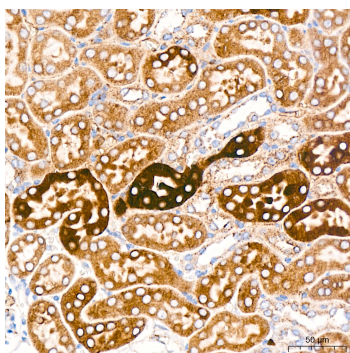
## Validation Data



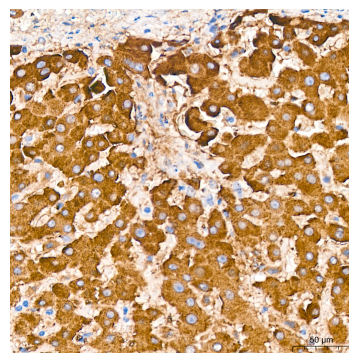
Western blot analysis of various lysates using Cathepsin L/V/K/H Rabbit mAb (A4986) at 1:1000 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1s.



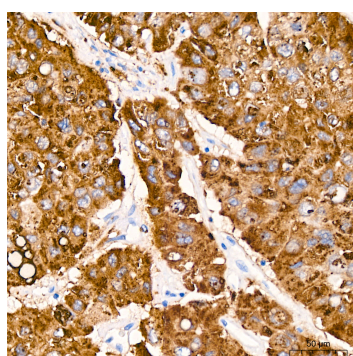
Immunohistochemistry analysis of Cathepsin L/V/K/H in paraffin-embedded rat brain tissue using Cathepsin L/V/K/H Rabbit mAb (A4986) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Cathepsin L/V/K/H in paraffin-embedded mouse kidney tissue using Cathepsin L/V/K/H Rabbit mAb (A4986) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Cathepsin L/V/K/H in paraffin-embedded human liver cancer tissue using Cathepsin L/V/K/H Rabbit mAb (A4986) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Cathepsin L/V/K/H in paraffin-embedded human liver tissue using Cathepsin L/V/K/H Rabbit mAb (A4986) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.