

## Anti-Cathepsin L Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat
Molecular Weight:	Theoretical: 37 kDa. Actual: 37 kDa.
Purification:	Protein A purified

## Applications

## Verified Activity:

1. Measured by its binding ability in a indirect ELISA. Immobilized Mouse Cathepsin L protein, His Tag at 2 µg/mL (100 µL/well) can bind Rabbit Anti-Mouse Cathepsin L Antibody, the EC50 is 159.7 ng/mL.
2. Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded (mouse thyroid gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
7. Sample:  
Lane 1: Mouse Thymus tissue lysates  
Lane 2: Mouse Placenta tissue lysates  
Lane 3: Rat Ovary tissue lysates  
Lane 4: Rat Thymus tissue lysates

Lane 5: Rat Placenta tissue lysates

Primary: Anti-Cathepsin L (TMAB-03691) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 37 kDa

Observed band size: 37 kDa

8. Paraformaldehyde-fixed, paraffin embedded (mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

9. Paraformaldehyde-fixed, paraffin embedded (mouse ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

10. Paraformaldehyde-fixed, paraffin embedded (mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

11. Paraformaldehyde-fixed, paraffin embedded (mouse heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

12. Paraformaldehyde-fixed, paraffin embedded (mouse thymus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

13. Paraformaldehyde-fixed, paraffin embedded (rat lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

14. Paraformaldehyde-fixed, paraffin embedded (rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

15. Paraformaldehyde-fixed, paraffin embedded (rat thymus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (TMAB-03691) at 1:100 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

## A DRUG SCREENING EXPERT

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Application: WB,IHC-P,IHC-Fr,IF,ELISA

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:400-800; IF: 1:100-500; ELISA: 1:5000-10000

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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.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein: mouse Cathepsin L protein

Antigen Species: Mouse

Gene ID: 13039

Uniprot ID: P06797

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### Research 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. At least two transcript variants encoding the same protein have been found for this gene.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481

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