

Anti-Cathepsin L Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse)
Molecular Weight:	Theoretical: 19/30/37 kDa. Actual: 40 kDa.
Purification:	Protein A purified

Applications

1. Sample:

A549 Cell (Human) Lysate at 30 µg

K562 Cell (Human) Lysate at 30 µg

Primary: Anti-Cathepsin L (TMAB-03690) at 1/300 dilution

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

Predicted band size: 19/30/37 kD

Observed band size: 40 kD

2. Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-Cathepsin L Polyclonal Antibody, Unconjugated (TMAB-03690) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

3. Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-Cathepsin Polyclonal Antibody, Unconjugated (TMAB-03690) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

4. Blank control: A549.

Primary Antibody (green line): Rabbit Anti-Cathepsin L antibody (TMAB-03690)

Dilution: 1 µg/Test;

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 0.5 µg/Test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

5. Sample:

Lane 1: Human HUVEC cell Lysates

Lane 2: Human K562 cell Lysates

Lane 3: Human MCF-7 cell Lysates

Primary: Anti-Cathepsin L (TMAB-03690) at 1/300 dilution

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

Predicted band size: 19/30/37 kDa

Verified Activity:

Observed band size: 40 kDa

6. Paraformaldehyde-fixed, paraffin embedded (Human 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-03690) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

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

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

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.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human cathepsin L1 proprotein

Antigen Species: Human

Gene ID: 1514

Uniprot ID: P07711

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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