

Cathepsin L Rabbit pAb

Catalog Number: bs-1508R

Target Protein: Cathepsin L

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1ug/Test)

Reactivity: Human, Rat (predicted:Mouse)

Predicted MW: 19/30/37 kDa

Entrez Gene: 1514

Swiss Prot: P07711

Source: KLH conjugated synthetic peptide derived from human cathepsin L1 proprotein: 71-170/334.

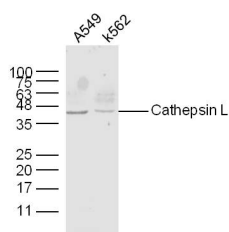
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

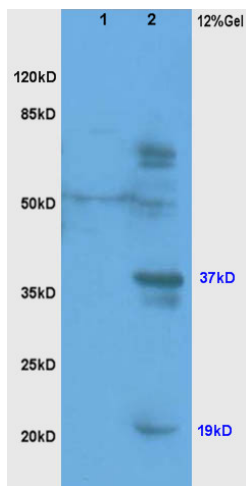
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

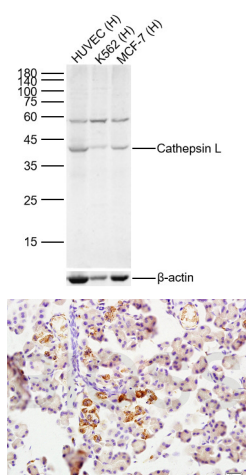
VALIDATION IMAGES



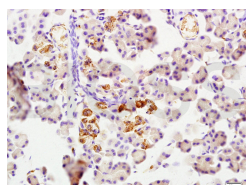
Sample: A549 Cell (Human) Lysate at 30 ug K562 Cell (Human) Lysate at 30 ug Primary: Anti- Cathepsin L (bs-1508R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 19/30/37 kD Observed band size: 40 kD



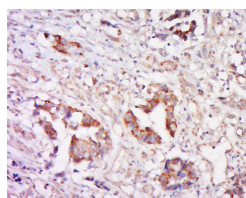
Protein: line1, rat brain lysates, 30ug; line2, rat liver lysates, 30ug; Primary: Anti-Cathepsin L (bs-1508R) at 1:200; Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bs-0295G-HRP) at 1: 3000; ECL excited the fluorescence; Predicted band size : 37kD Observed band size : 19kD, 37kD



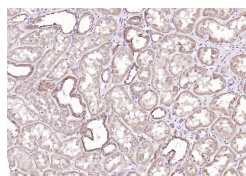
Sample: Lane 1: Human HUVEC cell Lysates Lane 2: Human K562 cell Lysates Lane 3: Human MCF-7 cell Lysates Primary: Anti-Cathepsin L (bs-1508R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 19/30/37kDa Observed band size: 40kDa



Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cathepsin L Polyclonal Antibody, Unconjugated(bs-1508R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human cervical carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cathepsin Polyclonal Antibody, Unconjugated(bs-1508R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cathepsin L) Polyclonal Antibody, Unconjugated (bs-1508R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=7.56] Hernández B, Guerra M, Salas ML, Andrés G (2016) African Swine Fever Virus Undergoes Outer Envelope Disruption, Capsid Disassembly and Inner Envelope Fusion before Core Release from Multivesicular Endosomes. PLoS Pathog 12(4): e1005595. Other ; ="Pig" . 27110717

[IF=4.406] Mathew Suji Eapen. et al. The Pathophysiology of COVID-19 and SARS-CoV-2 Infection: Dysregulation of endocytic machinery and ACE2 in small airways of smokers and COPD patients can augment their susceptibility to SARS-CoV-2 (COVID-19) infections. Am J Physiol-Lung C. 2021 Jan 1; 320(1): L158–L163 IHC ; Human . 33174446