bs-1508R **[Primary Antibody]**

Cathepsin L Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1514 **SWISS:** P07711

Target: Cathepsin L

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

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

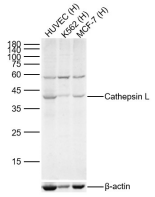
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

Reactivity: Human, Rat (predicted: Mouse)

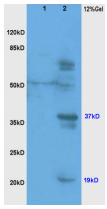
Predicted MW.: 19/30/37 kDa

Subcellular Location: Lysosome ,Cytoplasmic vesicle ,Membrane ,Secreted ,Cell membrane

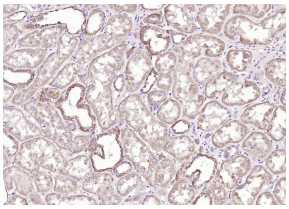
VALIDATION IMAGES



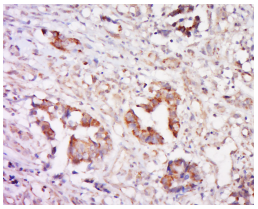
Sample: Lane 1: Human HUVEC cell Lysates Lane 2: Human K562 cell Lysates Lane 3: Human MCF-7 cell Lysates Primary: Anti-Cathepsin L (bs-1508R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 19/30/37kDa Observed band size: 40kDa



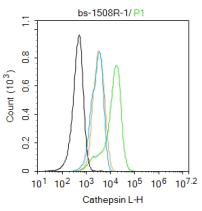
Protein: line1, rat brain lysates, 30ug; line2, rat liver lysates, 30ug; Primary: Anti-Cathepsin L (bs-1508R) at 1:200; Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bs-0295G-HRP) at 1: 3000; ECL excitated the fluorescence; Predicted band size : 37kD Observed band size : 19kD, 37kD



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.



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



Blank control:A549. Primary Antibody (green line): Rabbit Anti-Cathepsin L antibody

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

(bs-1508R) Dilution: 1ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min 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.

SELECTED CITATIONS

- **[IF=7.56]** Hernáez 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