SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Cathepsin G antibody

Catalog Number: SL1598R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Cathepsin G
Immunogen:	KLH conjugated synthetic peptide derived from human CTSG: 41-120/255
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Cow,Horse,Rabbit,Sheep)
Predicted MW.:	28kDa
Subcellular Location:	The nucleus The cell membrane
Background:	Cathepsin G is a serine protease, it consisting of a single polypeptide with a molecular weight of 30 kDa as determined by SDS-PAGE. Its substrates are collagen and proteoglycans. Poor regulation of Cathepsin G levels has been associated with various connective tissue disorders, for example pulmonary emphysema and cystic fibrosis. **Function:** Serine protease with trypsin- and chymotrypsin-like specificity. Cleaves complement C3. Has antibacterial activity against the Gram-negative bacterium P.aeruginosa, antibacterial activity is inhibited by LPS from P.aeruginosa, Z-Gly-Leu-Phe-CH2Cl and phenylmethylsulfonyl fluoride. **Subcellular Location:** Cell surface. **Similarity:** Belongs to the peptidase S1 family. Contains 1 peptidase S1 domain. **Database links:**

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Entrez Gene: 1511 Human Omim: 116830 Human **SwissProt:** P08311 Human **Unigene:** 421724 Human

[VALIDATION IMAGES]

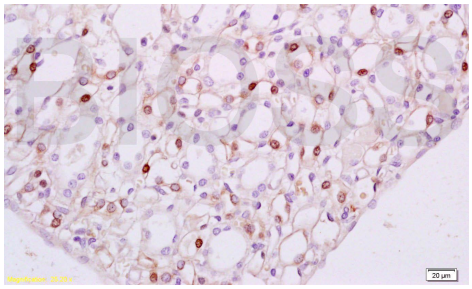


Figure 1. Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-Cathepsin G Polyclonal Antibody, Unconjugated(SL1598R) 1:100, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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