SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-Cathepsin L/FITC Conjugated antibody

Catalog Number: SL1508R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Cathepsin L/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human cathepsin L1 proprotein
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1ug/Test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse)
Background:	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. **Function:** Important for the overall degradation of proteins in lysosomes. **Subunit:** Dimer of a heavy and a light chain linked by disulfide bonds. **Subcellular Location:** Lysosome.

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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	Similarity: Belongs to the peptidase C1 family. **Database links:** **Entrez Gene:** 1514 Human **Entrez Gene:** 13039 Mouse **Entrez Gene:** 25697 Rat Omim: 116880 Human **SwissProt:** P07711 Human **SwissProt:** P06797 Mouse **SwissProt:** P07154 Rat **Unigene:** 726015 Human **Unigene:** 930 Mouse **Unigene:** 1294 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Synthesis and Degradation（Synthesis and Degradation） Cathepsin L (CL) is a cysteine protease belonging to the papain family, stored in lysosomes as a zymogen. It participates in many specific physiological processes, such as activation of prohormones, antigen presentation, and development of tissues and organs. Under pathological conditions, cell damage caused by various factors (such as pathogenic microorganisms, inflammatory factors, oxidative stress, etc.) can degrade cellular components or interstitial matrix components, including laminin, type IV collagen fibers, and fibronectin, etc., and is associated with many human diseases such as Tumour invasion and metastasis, arthritis, osteoporosis, Alzheimer's disease, multiple sclerosis, and other chronic inflammatory diseases.