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Cathepsin S Rabbit pAb

Catalog # AP98981

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P25774
Other Accession	P25774
Predicted	Rat, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37496
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Cathepsin S
Epitope Specificity	121-250/331
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase C1 family.
SUBUNIT	Monomer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The cathepsin family of proteolytic enzymes contains several diverse classes of proteases. The cysteine protease class comprises cathepsins B, L, H, K, S, and O (1-6). The aspartyl protease class is composed of cathepsins D and E (7,8). Cathepsin G is in the serine protease class (9). Most cathepsins are lysosomal and each is involved in cellular metabolism, participating in various events such as peptide biosynthesis and protein degradation. Cathepsin S has been shown to be an elastinolytic cysteine proteinase present in aveloar macrophages.

Additional Information

Gene ID	1520
Other Names	CATS_CANLF; CTSS; 3.4.22.27; CATS_HUMAN; cathepsin S
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CTSS

Function	Thiol protease (PubMed: 30612035). Key protease responsible for the removal of the invariant chain from MHC class II molecules and MHC class II antigen presentation (PubMed:30612035). The bond- specificity of this proteinase is in part similar to the specificities of cathepsin L (PubMed:30612035). Elicits itch by mediating cleavage and activation of MRGPRX1 (By similarity).
Cellular Location	Lysosome. Secreted. Cytoplasmic vesicle, phagosome

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.