

Rabbit anti-Human Cathepsin S Polyclonal Antibody | anti-CTSS antibody

Anti-Cathepsin S Antibody, Rabbit Polyclonal

CATALOG # AAA259411	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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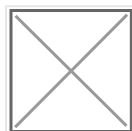
PRODUCT SYNONYMS

Cathepsin S; Polyclonal Antibody; Anti-Cathepsin S Antibody; Rabbit Polyclonal; Cathepsin S Antibody; Rabbit PAb; Antigen Affinity Purified; cathepsin S; anti-CTSS antibody

PRODUCT SPECIFICATIONS

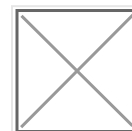
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Cathepsin S
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CTSS antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Recombinant Human Cathepsin S Protein (NP_004070.3; Met1-Ile331). Cathepsin S specific IgG was purified by Human Cathepsin S affinity chromatography.
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

IMAGES



IP (Immunoprecipitation)

CTSS was immunoprecipitated using: Lane A:0.5 mg A549 Whole Cell Lysate 4 uL anti-CTSS rabbit polyclonal antibody and 60ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-CTSS rabbit polyclonal antibody,at 1:100 dilution Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 37 kDa Observed band size :37 kDa



WB (Western Blot)

Anti-Cathepsin S rabbit polyclonal antibody at 1:500 dilutionLane A: HeLa Whole Cell LysateLane A: A549 Whole Cell LysateLysates/proteins at 30ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilutionDeveloped using the ECL technique. Performed under reducing conditions.Predicted band size:37 kDaObserved band size:37 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CTSS antibody	Cathepsin S (CTSS), one of the lysosomal proteinases, has many important physiological functions in the nervous system, especially in process of extracellular matrix degradation and endocellular antigen presentation. CTSS is synthesized as inactive precursor of 331 amino acids consisting of a 15-aa signal peptide, a propeptide of 99 aa, and a mature polypeptide of 217 aa. It is activated in the lysosomes by a proteolytic cleavage of the propeptide. Cathepsin S is expressed in the lysosome of antigen presenting cells, primarily dendritic cells, B-cells and macrophages. Compared with other lysosomal cysteine proteases, cathepsin S has displayed some unique characteristics. Cathepsin S is most well known for its critical function in the proteolytic digestion of the invariant chain chaperone molecules, thus controlling antigen presentation to CD4+ T-cells by major histocompatibility complex (MHC) class II molecules or to NK1.1+ T-cells via CD1 molecules. Cathepsin S also appears to participate in direct processing of exogenous antigens for presentation by MHC class II to CD4+ T-cells, or in cross-presentation by MHC class I molecules to CD8+ T-cells. In addition, although direct evidence is still lacking, in its secreted form cathepsin S is implicated in degradation of the extracellular matrix, which may contribute to the pathology of a number of diseases, including arthritis, atherosclerosis, neurological diseases and chronic obstructive pulmonary disease.
References	Li. W. e. al. (2004). Cystein. proteas. cathepsi. . a. . ke. ste. i. antige. presentation. Dru. New. Perspect. 17(6). 357-63. Thurmon. RL. e. al. (2005). Cathepsi. . inhibitor. a. nove. immunomodulators. Cur. Opi. Investi. Drugs. 6(5). 473-82. Wan. DM. e. al. (2008). Cathepsi. . i. pathogenesi. o. neurologica. diseases. Zhejian. D. Xu. Xu. Ba. Y. Xu. Ban. 37(4). 422-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23110962
NCBI GeneID	1520
NCBI Accession #	NP_004070.3
NCBI GenBank Nucleotide #	NM_004079.4
UniProt Accession #	P25774 ; Q5T5I0 ; Q6FHS5 ; Q9BUG3 ; B4DWC9 ; D3DV05
Molecular Weight	31,626 Da
NCBI Official Full Name	cathepsin S isoform 1 preproprotein
NCBI Official Synonym Full Names	cathepsin S
NCBI Official Symbol	CTSS
NCBI Protein Information	cathepsin S
UniProt Protein Name	Cathepsin S
UniProt Gene Name	CTSS
UniProt Entry Name	CATS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/cathepsin-s-antibody-immunoprecipitation-western-blot-elisa/259411>