

Rabbit anti-Mouse Cathepsin A Polyclonal Antibody | anti-CTSA antibody

Anti-Cathepsin A Antibody, Rabbit Polyclonal

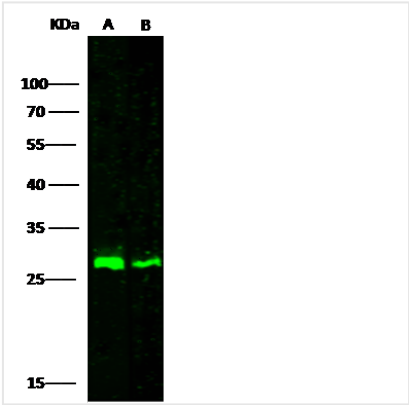
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257138	Rabbit	Mouse	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

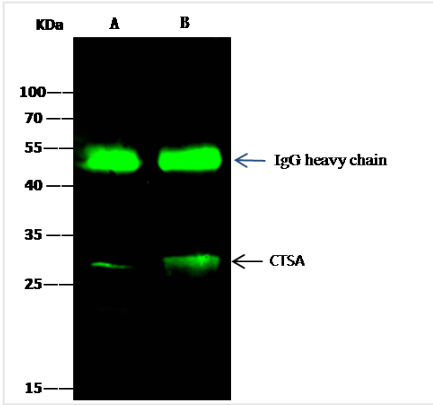
Cathepsin A; Polyclonal Antibody; Anti-Cathepsin A Antibody; Rabbit Polyclonal; Cathepsin A/CTSA Antibody; Rabbit PAb; Antigen Affinity Purified; cathepsin A; Anti-AU019505 Antibody; Anti-PPCA Antibody; Anti-Ppgb Antibody; anti-CTSA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Cathepsin A/CTSA
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CTSA antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse Cathepsin A/CTSA protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Cathepsin A/CTSA. Cathepsin A/CTSA specific IgG was purified by Mouse Cathepsin A/CTSA affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 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.



WB (Western Blot)
Anti-CTSA rabbit polyclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lane B: HepG2 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 30 kDa Observed band size: 28 kDa



IP (Immunoprecipitation)
Mouse CTSA was immunoprecipitated using: Lane A: 0.5 mg K562 Whole Cell Lysate Lane B: 0.5 mg A549 Whole Cell Lysate 2 uL anti-Mouse CTSA rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Mouse CTSA rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 30 kDa Observed band size: 30 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CTSA antibody	Lysosomal carboxypeptidase, cathepsin A (protective protein, CathA), is a component of the lysosomal multienzyme complex along with beta-galactosidase (GAL) and sialidase Neu1, where it activates Neu1 and protects GAL and Neu1 against the rapid proteolytic degradation. Cathepsin A is a multicatalytic enzyme with deamidase and esterase in addition to carboxypeptidase activities. It was recently identified in human platelets as deamidase. In vitro, it hydrolyzes a variety of bioactive peptide hormones including tachykinins, suggesting that extralysosomal cathepsin A plays a role in regulation of bioactive peptide functions. It is a member of the alpha/beta hydrolase fold family and has been suggested to share a common ancestral relationship with other alpha/beta hydrolase fold enzymes, such as cholinesterases. Cathepsin A defects are linked to multiple forms of Galactosialidosis with a combined secondary deficiency of beta-galactosidase and neuraminidase. Cathepsin A is a key molecule in the onset of galactosialidosis and also highlight the therapeutic acts in vivo as an endothelin-1-inactivating enzyme and strongly confirm a crucial role of this enzyme in effective elastic fiber formation.
Product Categories/Family for anti-CTSA antibody	Serine Proteases and Regulators
References	Hiraiwa M. (1999) Cathepsin A/protective protein: an unusual lysosomal multifunctional protein. Cell Mol Life Sci. 56(11-12): 894-907. Yoshida T, et al. (2006) Comparative analysis of binding energy of chymostatin with human cathepsin A and its homologous proteins by molecular orbital calculation. J Chem Inf Model. 46(5): 2093-103. Seyran-tepe V, et al. (2008) Enzymatic activity of lysosomal carboxypeptidase (cathepsin) A is required for proper elastic fiber formation and inactivation of endothelin-1. Circulation. 117(15): 1973-81.

NCBI AND UNIPROT INFORMATION

NCBI GI #	84042523
NCBI GeneID	19025
NCBI Accession #	NP_001033581.1
NCBI GenBank Nucleotide #	NM_001038492.2
UniProt Accession #	P16675; Q8VEF6
Molecular Weight	53,844 Da
NCBI Official Full Name	lysosomal protective protein isoform b preproprotein
NCBI Official Synonym Full Names	cathepsin A

NCBI Official Symbol	Ctsa
NCBI Official Synonym Symbols	PPCA; Ppgb; AU019505
NCBI Protein Information	lysosomal protective protein
UniProt Protein Name	Lysosomal protective protein
UniProt Gene Name	Ctsa
UniProt Synonym Gene Names	Ppgb; PPCA

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cathepsin-a-antibody-immunoprecipitation-western-blot-elisa/257138>