

Rabbit CLPP Polyclonal Antibody | anti-CLPP antibody

Anti-CLPP Picoband antibody

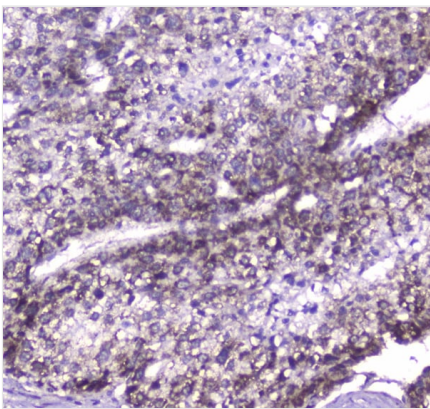
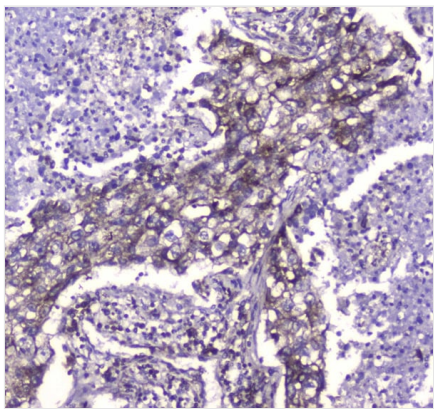
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124622	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

CLPP; Polyclonal Antibody; Anti-CLPP Picoband antibody; ATP-dependent Clp protease proteolytic subunit; mitochondrial; Endopeptidase Clp; anti-CLPP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	277
Applicable Applications for anti-CLPP antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human CLPP recombinant protein (Position: A184-H247).
Subcellular Localization	Mitochondrion matrix.
Tissue Specificity	Detected in liver (at protein level). Predominantly expressed in skeletal muscle. Intermediate levels in heart, liver and pancreas. Low in brain, placenta, lung and kidney.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

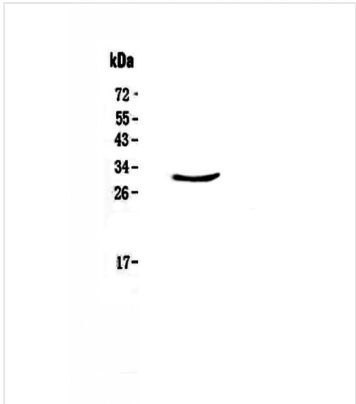


IHC (Immunohistochemistry)

Figure 3. IHC analysis of CLPP using anti-CLPP antibody (AAA124622).CLPP was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CLPP Antibody (AAA124622) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

IHC (Immunohistochemistry)

Figure 2. IHC analysis of CLPP using anti-CLPP antibody (AAA124622).CLPP was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CLPP Antibody (AAA124622) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CLPP using anti-CLPP antibody (AAA124622).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human A375 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CLPP antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CLPP at approximately 30KD. The expected band size for CLPP is at 30KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CLPP antibody	Description: ATP-dependent Clp protease proteolytic subunit (ClpP) is an enzyme that in humans is encoded by the CLPP gene. It is mapped to 19p13.3. The protein encoded by this gene belongs to the peptidase family S14 and hydrolyzes proteins into small peptides in the presence of ATP and magnesium. The protein is transported into mitochondrial matrix and is associated with the inner mitochondrial membrane. Protein Function: Protease component of the Clp complex that cleaves peptides and various proteins in an ATP-dependent process. Has low peptidase activity in the absence of CLPX. The Clp complex can degrade CSN1S1, CSN2 and CSN3, as well as synthetic peptides (in vitro) and may be responsible for a fairly general and central housekeeping function rather than for the degradation of specific substrates.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5174419
NCBI GeneID	8192
NCBI Accession #	NP_006003.1
NCBI GenBank Nucleotide #	NM_006012.2
UniProt Accession #	Q16740; B2R4W5
Molecular Weight	30,180 Da
NCBI Official Full Name	ATP-dependent Clp protease proteolytic subunit, mitochondrial
NCBI Official Synonym Full Names	caseinolytic mitochondrial matrix peptidase proteolytic subunit
NCBI Official Symbol	CLPP
NCBI Official Synonym Symbols	DFNB81; PRLTS3
NCBI Protein Information	ATP-dependent Clp protease proteolytic subunit, mitochondrial
UniProt Protein Name	ATP-dependent Clp protease proteolytic subunit, mitochondrial
UniProt Gene Name	CLPP

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/clpp-antibody-western-blot-immunohistochemistry-elisa/124622>