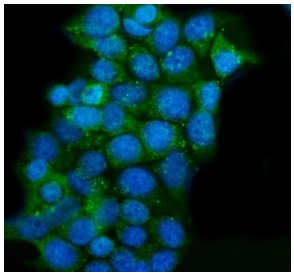
CLPP Antibody (RQ4278)

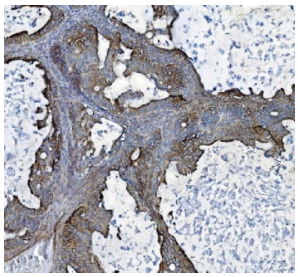
Catalog No.	Formulation	Size
RQ4278	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

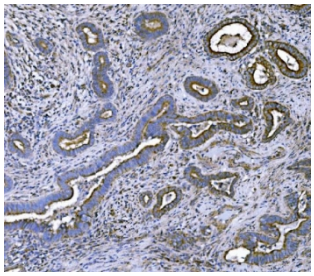
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q16740
Localization	Cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/10^6 cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This CLPP antibody is available for research use only.



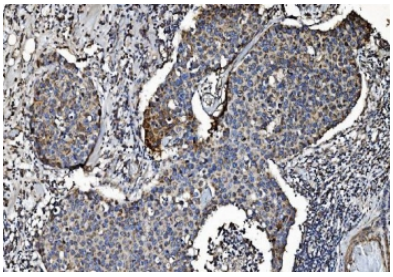
Immunofluorescent staining of FFPE human MCF7 cells with CLPP antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



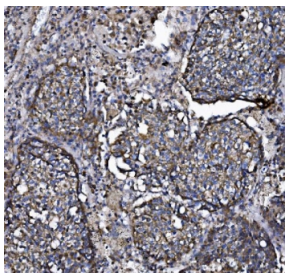
IHC testing of FFPE human ovarian cancer tissue with CLPP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



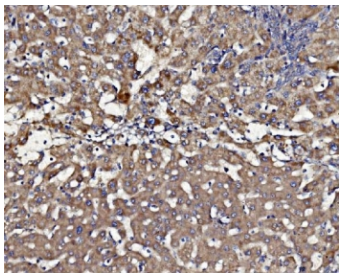
IHC testing of FFPE human gallbladder adenocarcinoma tissue with CLPP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



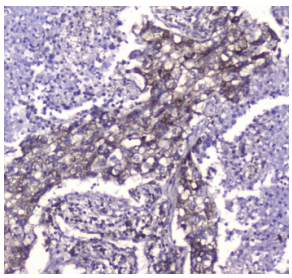
IHC testing of FFPE human breast cancer tissue with CLPP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



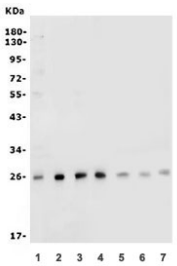
IHC testing of FFPE human lung cancer tissue with CLPP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



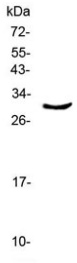
IHC testing of FFPE human liver cancer tissue with CLPP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



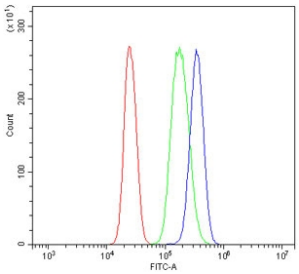
IHC testing of FFPE human lung cancer tissue with CLPP antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



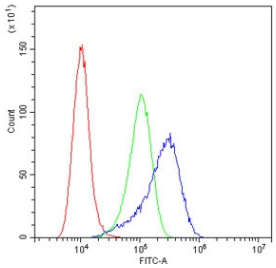
Western blot testing of human 1) PC-3, 2) HEK293, 3) MCF7, 4) ThP-1, 5) rat pancreas, 6) rat lung and 7) mouse pancreas lysate with CLPP antibody at 0.5ug/ml. Predicted molecular weight: 26-30 kDa.



Western blot testing of human A375 cell lysate with CLPP antibody at 0.5ug/ml. Predicted molecular weight: 26-30 kDa.



Flow cytometry testing of human U937 cells with CLPP antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CLPP antibody.



Flow cytometry testing of human A431 cells with CLPP antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= 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.

Application Notes

Optimal dilution of the CLPP antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids A184-H247 was used as the immunogen for the CLPP antibody.

Storage

After reconstitution, the CLPP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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