

**CPN1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7337a****Specification**

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**CPN1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P15169</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52286
Antigen Region	52-81

**CPN1 Antibody (N-term) - Additional Information****Gene ID** 1369**Other Names**

Carboxypeptidase N catalytic chain, CPN, Anaphylatoxin inactivator, Arginine carboxypeptidase, Carboxypeptidase N polypeptide 1, Carboxypeptidase N small subunit, Kininase-1, Lysine carboxypeptidase, Plasma carboxypeptidase B, Serum carboxypeptidase N, SCPN, CPN1, ACBP

**Target/Specificity**

This CPN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-81 amino acids from the N-terminal region of human CPN1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CPN1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CPN1 Antibody (N-term) - Protein Information****Name** CPN1

**Synonyms** ACBP

**Function** Protects the body from potent vasoactive and inflammatory peptides containing C-terminal Arg or Lys (such as kinins or anaphylatoxins) which are released into the circulation.

**Cellular Location**

Secreted, extracellular space.

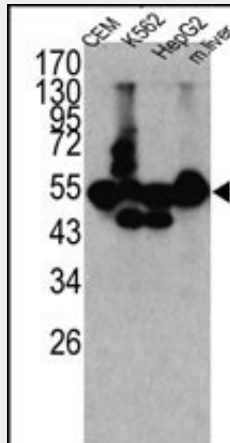
**Tissue Location**

Synthesized in the liver and secreted in plasma.

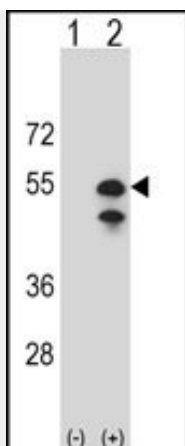
**CPN1 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

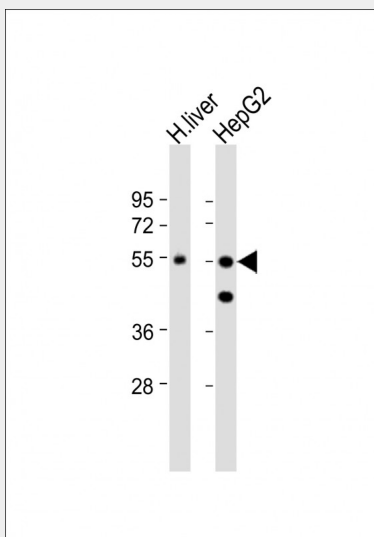
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CPN1 Antibody (N-term) - Images**

Western blot analysis of CPN1 antibody (N-term) (Cat.#AP7337a) in K562, CEM, HEpG2 cell line lysates and mouse liver tissue lysates (35ug/lane). CPN1 (arrow) was detected using the purified Pab.



Western blot analysis of CPN1 (arrow) using rabbit polyclonal CPN1 Antibody (N-term) (Cat. #AP7337a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CPN1 gene.



All lanes : Anti-CPN1 Antibody (N-term) at 1:1000 dilution Lane 1: human liver lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### CPN1 Antibody (N-term) - Background

CPN1 is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The protein is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and anaphylatoxin inactivator. This protein is a tetramer comprised of two identical regulatory subunits and two identical catalytic subunits.

### CPN1 Antibody (N-term) - References

- Davis,D.A., Singer,K.E. Blood 105 (12), 4561-4568 (2005)  
Riley,D.A., Tan,F. Genomics 50 (1), 105-108 (1998)  
Hendriks,D., Vingron,M. Biol. Chem. Hoppe-Seyler 374 (9), 843-849 (1993)