10320 Camino Santa Fe, Suite G
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CPN1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12882c

Specification

CPN1 Antibody (Center) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	P15169
Other Accession	NP_001299.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**52286**
Antigen Region	**210-240**

CPN1 Antibody (Center) - 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 210-240 amino acids from the Central region of human CPN1.

Dilution
FC~~1:10~50
IHC-P~~1:10~50
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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CPN1 Antibody (Center) - Protein Information

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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.

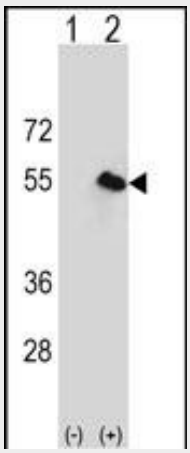
Tissue Location
Synthesized in the liver and secreted in plasma.

CPN1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CPN1 Antibody (Center) - Images



Western blot analysis of CPN1 (arrow) using rabbit polyclonal CPN1 Antibody (Center) (Cat. #AP12882c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CPN1 gene.

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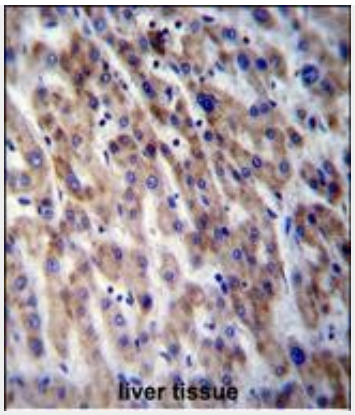
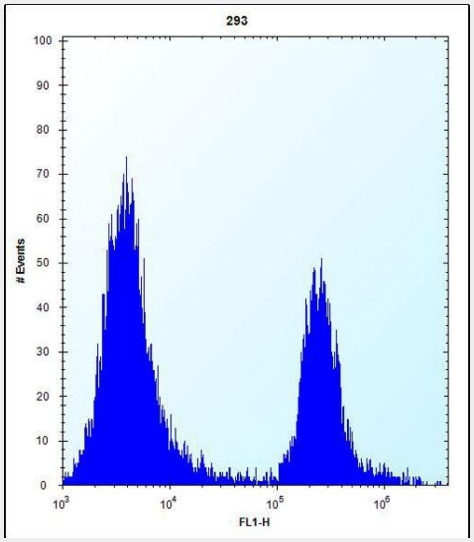


CPN1 Antibody (Center) (Cat. #AP12882c)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CPN1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



CPN1 Antibody (Center) (Cat. #AP12882c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CPN1 Antibody (Center) - Background

Carboxypeptidase N is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The enzyme is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and anaphylatoxin inactivator. This enzyme is a tetramer comprised of two identical regulatory subunits and two identical catalytic subunits; this gene encodes the catalytic subunit. Mutations in this gene can be associated with angioedema or chronic urticaria resulting from carboxypeptidase N deficiency. [provided by RefSeq].

CPN1 Antibody (Center) - References

Speliotes, E.K., et al. Hepatology 52(3):904-912(2010)
Ichikawa, S., et al. J. Bone Miner. Res. 25(8):1821-1829(2010)

Du, X.Y., et al. J. Biol. Chem. 284(2):751-758(2009)
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