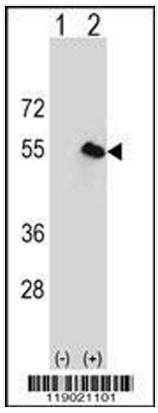
CPN1 Antibody – Rabbit Polyclonal

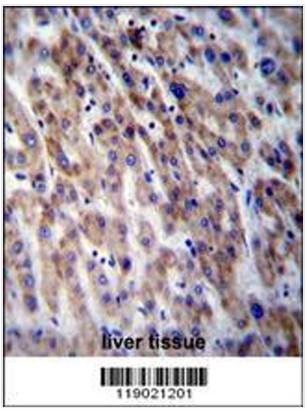
PRODUCT OVERVIEW

Product Name	CPN1, Polyclonal Antibody
Full Product Name	CPN1, ID (CPN1, ACBP, Carboxypeptidase N catalytic chain, Anaphylatoxin inactivator, Arginine carboxypeptidase, Carboxypeptidase N polypeptide 1, Carboxypeptidase N small subunit, Kininase-1, Lysine carboxypeptidase, Plasma carboxypeptidase B, Serum carbo
Product Gene Name	anti-CPN1 antibody
Product Synonym Names	CPN1; ACBP; Carboxypeptidase N catalytic chain; Anaphylatoxin inactivator; Arginine carboxypeptidase; Carboxypeptidase N polypeptide 1; Carboxypeptidase N small subunit; Kininase-1; Lysine carboxypeptidase; Plasma carboxypeptidase B; Serum carboxypeptidase N
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	52,286 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (101802065..101841642, complement). Location: 10q24.2
OMIM	212070
3D Structure	ModBase 3D Structure for P15169
Immunogen	CPN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 209-240 amino acids from the Central region of human CPN1.
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-CPN1 antibody	Antibodies; Enzymes; Carboxypeptidase
Applications Tested/Suitable for anti-CPN1 antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CPN1 antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 IHC: 1:10-50 WB: 1:50-100 Applications are based on unconjugated antibody.

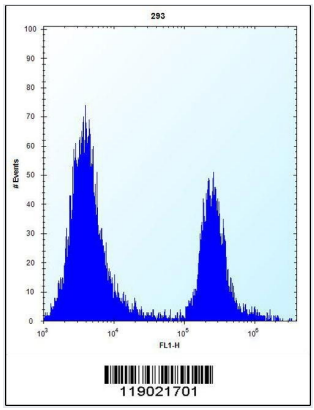
Related Product Information for anti-CPN1 antibody	Carboxypeptidase N is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The enzyme is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and 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].
Product References and Citations for anti-CPN1 antibody	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). Yuan, X., et al. Am. J. Hum. Genet. 83(4):520-528(2008). Skidgel, R.A., et al. Int. Immunopharmacol. 7(14):1888-1899(2007).
Other Notes	Small volumes of anti-CPN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CPN1 purchase	MBS6288317 is an antibody targeting CPN1. Also known as CPN1, ID (CPN1, ACBP, Carboxypeptidase N catalytic chain, Anaphylatoxin inactivator, Arginine carboxypeptidase, Carboxypeptidase N polypeptide 1, Carboxypeptidase N small subunit, Kininase-1, Lysine carboxypeptidase, Plasma carboxypeptidase B, Serum carbo. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CPN1 antibody
Western blot analysis of CPN1 (arrow) using rabbit polyclonal CPN1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CPN1 gene.



Immunohistochemistry (IHC) of anti-CPN1 antibody
CPN1 Antibody (Center) 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.



Flow Cytometry (FC/FACS) of anti-CPN1 antibody
CPN1 Antibody (Center) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPN1. It may not necessarily be applicable to this product.

NCBI GI #	4503011

NCBI GeneID	1369
NCBI Accession #	NP_001299.1
UniProt Primary Accession #	P15169
UniProt Related Accession #	P15169
GenBank Nucleotide #	NM_001308.2
NCBI Official Full Name	carboxypeptidase N catalytic chain
NCBI Official Synonym Full Names	carboxypeptidase N, polypeptide 1
NCBI Official Symbol	CPN1
NCBI Official Synonym Symbols	CPN; SCPN
UniProt Protein Name	Carboxypeptidase N catalytic chain
UniProt Synonym Protein Names	Anaphylatoxin inactivator; Arginine carboxypeptidase; Carboxypeptidase N polypeptide 1; Carboxypeptidase N small subunit; Kininase-1; Lysine carboxypeptidase; Plasma carboxypeptidase B; Serum carboxypeptidase N
Protein Family	Carboxypeptidase
UniProt Gene Name	CPN1
UniProt Synonym Gene Names	ACBP; CPN; SCPN
UniProt Entry Name	CBPN_HUMAN
NCBI Protein Information	carboxypeptidase N catalytic chain; kininase I; kininase-1; carboxypeptidase K; lysine carboxypeptidase; serum carboxypeptidase N; anaphylatoxin inactivator; arginine carboxypeptidase; plasma carboxypeptidase B; carboxypeptidase N small subunit; carboxype
NCBI Summary for CPN1	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, Jul 2008]
UniProt Comments for CPN1	CPN1: 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. Defects in CPN1 are the cause of carboxypeptidase N deficiency (CPND). Patients affected present some combination of angioedema or chronic urticaria, as well as hay fever or astma, and have also slightly depressed serum carboxy peptidase N, suggestive of autosomal recessive inheritance of this disorder. Belongs to the peptidase M14 family. Protein type: EC 3.4.17.3; Secreted, signal peptide; Protease; Secreted Chromosomal Location of Human Ortholog: 10q24.2 Cellular Component: extracellular space Molecular Function: zinc ion binding; metallocarboxypeptidase activity Biological Process: response to glucocorticoid stimulus; proteolysis Disease: Carboxypeptidase N Deficiency
Research Articles on CPN1	**1.** CPN binds to fibrinogen and is present in a fibrin clot prepared from plasma.
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