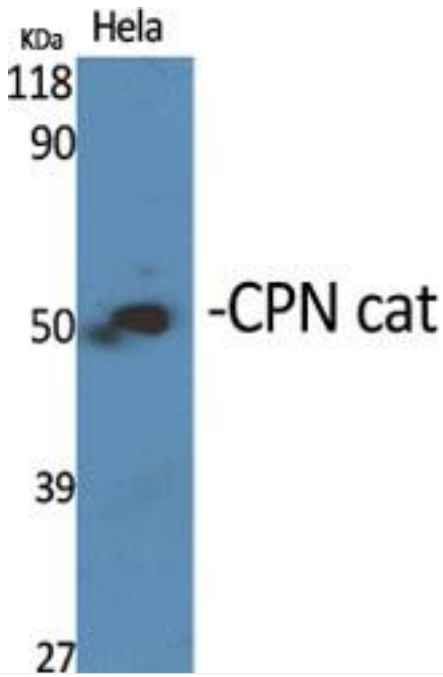
CPN cat Monoclonal Antibody

Catalog No	YP-mAb-03788
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	CPN1
Protein Name	Carboxypeptidase N catalytic chain
Immunogen	The antiserum was produced against synthesized peptide derived from human CPN1. AA range:409-458
Specificity	CPN cat Monoclonal Antibody detects endogenous levels of CPN cat protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CPN1; ACBP; Carboxypeptidase N catalytic chain; CPN; Anaphylatoxin inactivator; Arginine carboxypeptidase; Carboxypeptidase N polypeptide 1; Carboxypeptidase N small subunit; Kininase-1; Lysine carboxypeptidase; Plasma carboxypeptidase B; S
Observed Band	total 52kD Cleaved 48kD
Cell Pathway	Secreted, extracellular space.
Tissue Specificity	Synthesized in the liver and secreted in plasma.
Function	catalytic activity:Release of a C-terminal basic amino acid, preferentially lysine.,cofactor:Binds 1 zinc ion per subunit.,disease:Defects in CPN1 are the cause of carboxypeptidase N deficiency [MIM:212070]. 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.,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.,similarity:Belongs to the peptidase M14 family.,subunit:Tetramer of two catalytic chains and two glycosylated inactive chains.,tissue specificity:Synthesized in the liver and secreted in plasma.,

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, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CPN cat Monoclonal Antibody