Product Name: CPN cat Rabbit Polyclonal Antibody
Catalog #: APRab09320

Summary

Production Name	CPN cat Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CPN1
Alternative Names	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
Gene ID	1369.0
SwissProt ID	P15169.The antiserum was produced against synthesized peptide derived from human CPN1. AA range:409-458

Application

Dilution Ratio	WB 1:500-1:2000, ELISA 1:20000.Not yet tested in other applications.
Molecular Weight	total 52kDa,Cleaved 48kDa

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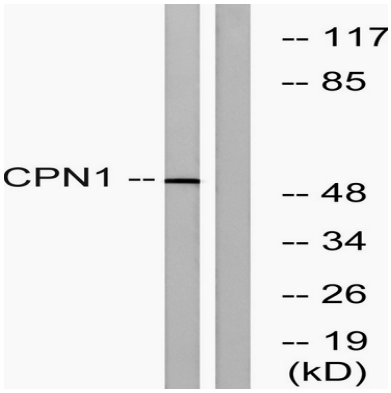
Background

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],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.,

Research Area

Image Data



Western blot analysis of lysates from RAW264.7 cells, using CPN1 Antibody. The lane on the right is blocked with the synthesized peptide.

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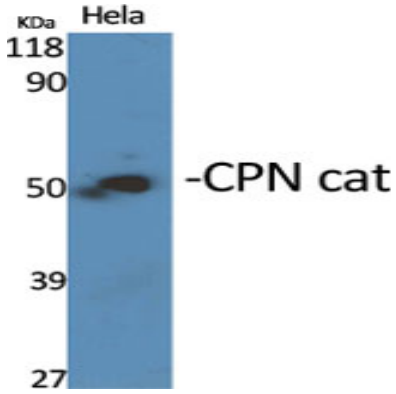
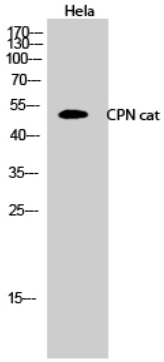


Western Blot analysis of various cells using CPN cat Polyclonal Antibody



Western Blot analysis of Hela cells using CPN cat Polyclonal Antibody

Note

For research use only.