Best Tools for immunology Research

# CPN cat Polyclonal Antibody

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|---|---|
| **Catalog No :** | YT1089 |
| **Reactivity :** | Human;Rat;Mouse; |
| **Applications :** | WB;ELISA |
| **Target :** | CPN cat |
| **Gene Name :** | CPN1 |
| **Protein Name :** | Carboxypeptidase N catalytic chain |
| **Human Gene Id :** | 1369 |
| **Human Swiss Prot No :** | P15169 |
| **Mouse Swiss Prot No :** | Q9JJN5 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human CPN1. AA range:409-458 |
| **Specificity :** | CPN cat Polyclonal Antibody detects endogenous levels of CPN cat protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications. |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Observed Band :** | total 52kD,Cleaved 48kD |

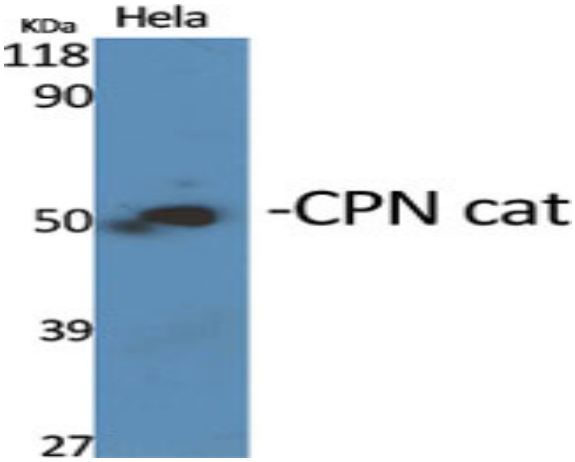
**Background :** Carboxypeptidase N is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The enzyme is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and anaphylatoxin inactivator. This 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],

**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.,

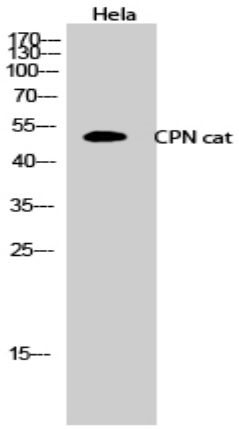
**Subcellular Location :** Secreted, extracellular space.

**Expression :** Synthesized in the liver and secreted in plasma.

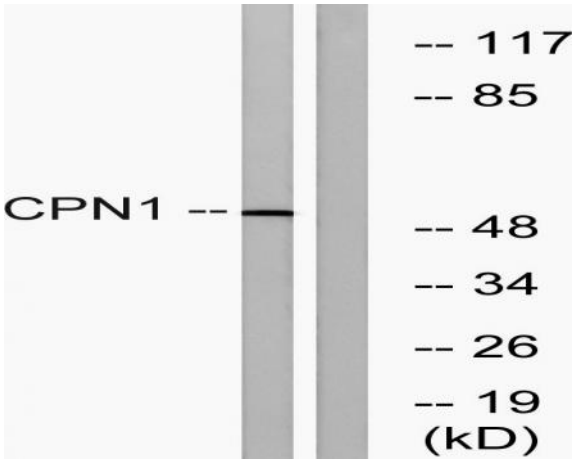
## Products Images




Western Blot analysis of various cells using CPN cat Polyclonal Antibody




Western Blot analysis of Hela cells using CPN cat Polyclonal Antibody




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