
Product Name: CPE Rabbit Polyclonal Antibody**Catalog #: APRab09308**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000
Molecular Weight	53kDa

Antigen Information

Gene Name	CPE
Alternative Names	CPE; Carboxypeptidase E; CPE; Carboxypeptidase H; CPH; Enkephalin convertase; Prohormone-processing carboxypeptidase
Gene ID	1363.0
SwissProt ID	P16870
Immunogen	The antiserum was produced against synthesized peptide derived from human CPE. AA range:271-320

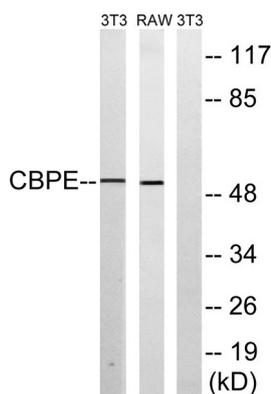
Background

carboxypeptidase E(CPE) Homo sapiens This gene encodes a member of the M14 family of metallocarboxypeptidases. The encoded preproprotein is proteolytically processed to generate the mature peptidase. This peripheral membrane protein cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. This protein may also function independently of its peptidase activity, as a neurotrophic factor that promotes neuronal survival, and as a sorting receptor that binds to regulated secretory pathway proteins, including prohormones. Mutations in this gene are implicated in type 2 diabetes. [provided by RefSeq, Nov 2015],catalytic activity:Release of C-terminal arginine or lysine residues from polypeptides.,cofactor:Binds 1 zinc ion per subunit.,function:Removes residual C-terminal Arg or Lys remaining after initial endoprotease cleavage during prohormone processing. Processes proinsulin.,similarity:Belongs to the peptidase M14 family.,subcellular location:Secretory granules of pancreatic islets, adrenal gland, pituitary and brain.,

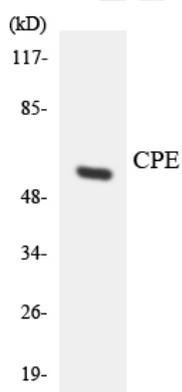
Research Area

Type I diabetes mellitus;

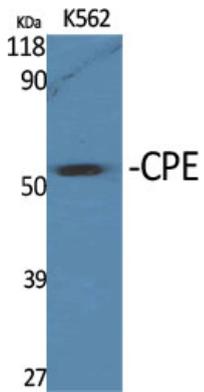
Image Data



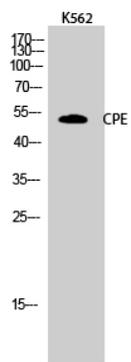
Western blot analysis of lysates from RAW264.7 and NIH/3T3 cells, using CPE Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using CPE antibody.



Western Blot analysis of various cells using CPE Polyclonal Antibody



Western Blot analysis of K562 cells using CPE Polyclonal Antibody