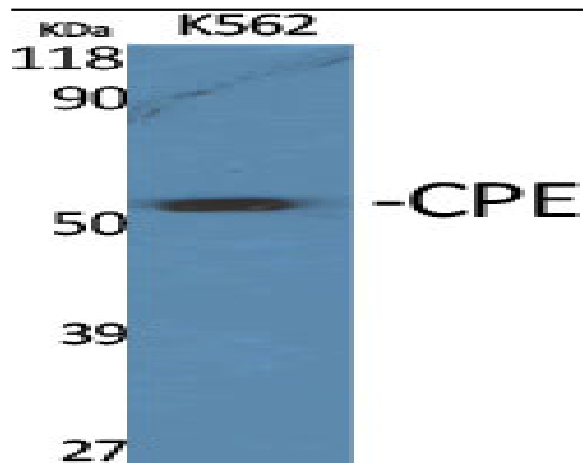


CPE Polyclonal Antibody

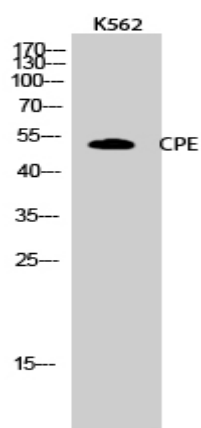
Catalog No :	YT1082
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	CPE
Fields :	>>Type I diabetes mellitus
Gene Name :	CPE
Protein Name :	Carboxypeptidase E
Human Gene Id :	1363
Human Swiss Prot No :	P16870
Mouse Gene Id :	12876
Mouse Swiss Prot No :	Q00493
Rat Gene Id :	25669
Rat Swiss Prot No :	P15087
Immunogen :	The antiserum was produced against synthesized peptide derived from human CPE. AA range:271-320
Specificity :	CPE Polyclonal Antibody detects endogenous levels of CPE 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: 1:10000. 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 :	53kD
Cell Pathway :	Type I diabetes mellitus;
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],
Function :	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.,
Subcellular Location :	[Isoform 1]: Cytoplasmic vesicle, secretory vesicle . Cytoplasmic vesicle, secretory vesicle membrane ; Peripheral membrane protein . Secreted . Associated with the secretory granule membrane through direct binding to lipid rafts in intragranular conditions. .
Expression :	Brain,Colon,Eye,
Sort :	4500
No4 :	1

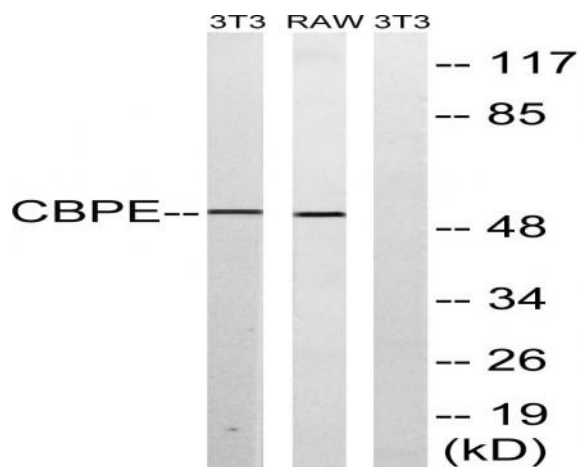
Products Images



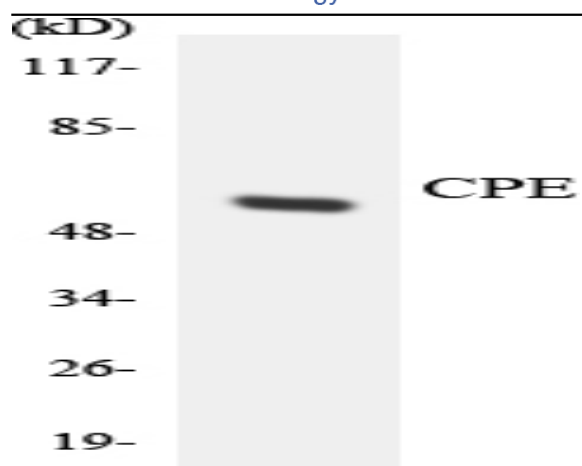
Western Blot analysis of various cells using CPE Polyclonal Antibody



Western Blot analysis of K562 cells using CPE Polyclonal Antibody



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.