



# CPE Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-04310                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactivity         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applications       | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name          | CPE                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Protein Name       | Carboxypeptidase E                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen          | The antiserum was produced against synthesized peptide derived from the C-terminal region of human CPE. AA range:427-476                                                                                                                                                                                                                                                                                                            |
| 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                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                               |
| Dilution           | WB: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Synonyms           | CPE; Carboxypeptidase E; CPE; Carboxypeptidase H; CPH; Enkephalin convertase; Prohormone-processing carboxypeptidase                                                                                                                                                                                                                                                                                                                |
| Observed Band      | 53kD                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cell Pathway       | [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. .                                                                                                                                                                |
| Tissue Specificity | Brain,Colon,Eye,                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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., |

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## Background

carboxypeptidase E(CPE) Homo sapiens This gene encodes a member of the M14 family of metalloproteases. 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],

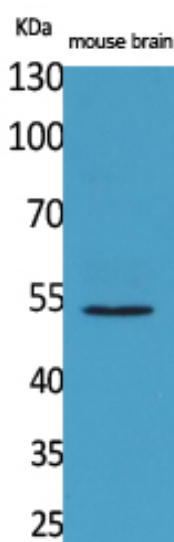
## matters needing attention

Avoid repeated freezing and thawing!

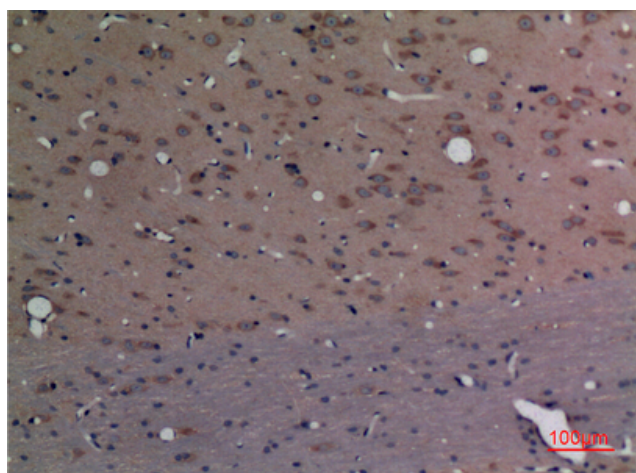
## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of mouse brain cells using CPE Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



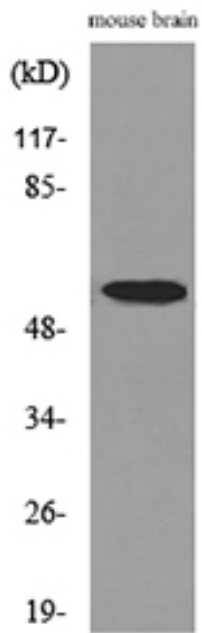
Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100

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Western blot analysis of lysate from mouse brain cells,  
using CPE Antibody.