

Carboxypeptidase E Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51113

Specification

Carboxypeptidase E Antibody - Product Information

Application	WB, E
Primary Accession	P16870
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53 KDa

Carboxypeptidase E Antibody - Additional Information

Gene ID 1363

Other Names

Carboxypeptidase E, CPE, Carboxypeptidase H, CPH, Enkephalin convertase, Prohormone-processing carboxypeptidase, CPE

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Carboxypeptidase E Antibody - Protein Information

Name CPE

Function

Sorting receptor that directs prohormones to the regulated secretory pathway. Acts also as a prohormone processing enzyme in neuro/endocrine cells, removing dibasic residues from the C-terminal end of peptide hormone precursors after initial endoprotease cleavage.

Cellular Location

[Isoform 1]: Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:Q00493}. Cytoplasmic vesicle, secretory vesicle membrane {ECO:0000250|UniProtKB:P15087}; Peripheral membrane protein {ECO:0000250|UniProtKB:P15087}. Secreted {ECO:0000250|UniProtKB:P15087}. Note=Associated with the secretory granule membrane through direct binding to lipid rafts in intragranular conditions. {ECO:0000250|UniProtKB:Q00493}

Carboxypeptidase E Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Carboxypeptidase E Antibody - Images

Carboxypeptidase E Antibody - Background

Removes residual C-terminal Arg or Lys remaining after initial endoprotease cleavage during prohormone processing. Processes proinsulin.

Carboxypeptidase E Antibody - References

Manser E., et al. *Biochem. J.* 267:517-525(1990).
Utsunomiya N., et al. *Diabetologia* 41:701-705(1998).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Lee T.K., et al. *J. Clin. Invest.* 121:880-892(2011).