

Carboxypeptidase E / CPE Antibody (aa271-320)
Rabbit Polyclonal Antibody
Catalog # ALS15803**Specification**

Carboxypeptidase E / CPE Antibody (aa271-320) - Product Information

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

Carboxypeptidase E / CPE Antibody (aa271-320) - Additional Information**Gene ID** 1363**Other Names**

Carboxypeptidase E, CPE, 3.4.17.10, Carboxypeptidase H, CPH, Enkephalin convertase, Prohormone-processing carboxypeptidase, CPE

Target/Specificity

CPE Antibody detects endogenous levels of total CPE protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

Carboxypeptidase E / CPE Antibody (aa271-320) is for research use only and not for use in diagnostic or therapeutic procedures.

Carboxypeptidase E / CPE Antibody (aa271-320) - 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}

Volume

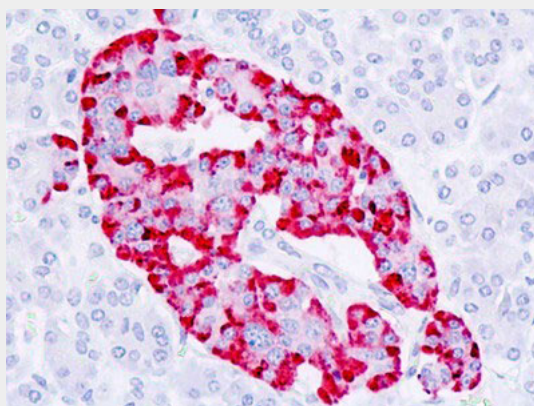
50 µl

Carboxypeptidase E / CPE Antibody (aa271-320) - 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 / CPE Antibody (aa271-320) - Images



Anti-Carboxypeptidase E / CPE antibody IHC staining of human pancreas, islet.

Carboxypeptidase E / CPE Antibody (aa271-320) - Background

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

Carboxypeptidase E / CPE Antibody (aa271-320) - 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).