

Carboxypeptidase E Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51113

Product Information

Application	WB
Primary Accession	P16870
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53151

Additional Information

Gene ID	1363
Other Names	Carboxypeptidase E, CPE, Carboxypeptidase H, CPH, Enkephalin convertase, Prohormone-processing carboxypeptidase, CPE
Dilution	WB~~1:1000
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

Protein Information

Name	CPE
Function	Sorting receptor that directs prohormones to the regulated secretory pathway. Also acts 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}

Background

Removes residual C-terminal Arg or Lys remaining after initial endoprotease cleavage during prohormone

processing. Processes proinsulin.

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.