

Anti-Carboxypeptidase E Antibody

Catalog # AP51113

Product Information

Application	WB, IHC
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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Carboxypeptidase E. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

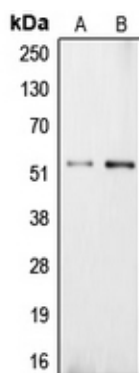
Protein Information

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}

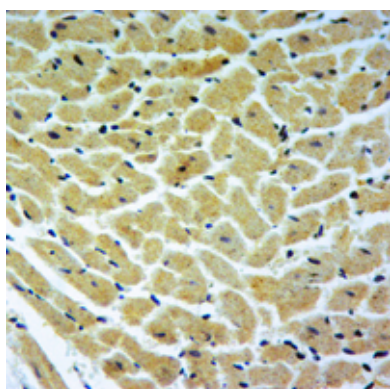
References

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).

Images



Western blot analysis of Carboxypeptidase E expression in NIH3T3 (A), PC12 (B) whole cell lysates. (Predicted band size: 49; 53 kD; Observed band size: 53-55 kD)



Immunohistochemical analysis of Carboxypeptidase E Antibody staining in rat heart formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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