



Carboxypeptidase E (CPE)

Catalog number

C1209-30B

Supplier

United States Biological

Carboxypeptidase E (CPE) is a peripheral membrane protein that cleaves C-terminal amino acid residues and is involved in the processing of numerous peptide hormones and neurotransmitters. CPE knockout mice live but become obese due to impaired glucose clearance and insulin resistance. The CPE precursor includes a signal peptide (aa1-25), a propeptide (aa26-42) and a mature chain (aa43-476). The amino acid sequence of human CPE is 99.8%, 96.6%, 96.3% and 90.2% identical to that of chimpanzee, mouse, dog and chicken.

Applications

Suitable for use in Direct ELISA, Western Blot and Immunoprecipitation. Other applications not tested.

Recommended Dilutions

Direct ELISA: 0.5-1.0ug/ml. The detection limit for rhCPE is ~5ng/well.

Western Blot: 1ug/ml. The detection limit for rhCPE is ~2ng/lane under non-reducing and reducing conditions. Chemiluminescence detection will increase sensitivity.

Immunoprecipitation: 25ug/ml immunoprecipitates rhCPE from conditioned cell culture medium.

Recovered rhCPE can be detected in Western Blots using catalog #C1209-30.

Optimal dilutions to be determined by the researcher.

Storage and Stability

Lyophilized and reconstituted products are stable for 12 months after receipt at -20°C. Reconstitute with sterile PBS. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Recombinant protein corresponding to Arg42-Ser453 from human Carboxypeptidase E (CPE), expressed in NSO cells.

Formulation

Supplied as a lyophilized powder from PBS, 5% trehalose. Reconstitute with 200ul sterile PBS.

Purity

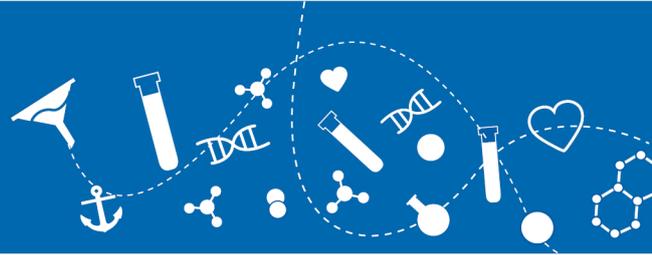
Purified by Protein G affinity chromatography from hybridoma culture supernatant.

Specificity

Recognizes human Carboxypeptidase E (CPE). Does not crossreact with recombinant human CPA1, CPA2, CPB1 or recombinant mouse CPA4.

Product Type

Mab

**Source**

human

Isotype

IgG2a

Grade

Affinity Purified

Applications

E IP WB

Crossreactivity

Hu

Storage

-20°C