

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carboxypeptidase E/CPE in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) CPA1, rhCPA2, rhCPB1, or recombinant mouse CPA4 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 420709
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carboxypeptidase E/CPE Arg42-Ser453 Accession # P16870
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

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 (aa 1-25), a propeptide (aa 26-42) and a mature chain (aa 43-476). 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.

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