

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carboxypeptidase B1/CPB1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) CPA1, rhCPA2, rhCPE, recombinant mouse (rm) CPA4, and rmCPB1 is observed
Source	Monoclonal Mouse IgG _{2A} Clone # 438806
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carboxypeptidase B1/CPB1 His16-Tyr417 Accession # P15086
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 B1, encoded by the CPB1 gene, specifically cleaves the C-terminal Arg and Lys residues with a preference for Arg (1). Expressed mainly in pancreas, CPB1 is a useful serum marker for acute pancreatitis (2). The deduced amino acid (aa) sequence of human CPB1 consists of a signal peptide (aa 1-15), a pro region (aa 16-110), and a mature chain (aa 111-417). Human CPB1 shares 98%, 84%, 76%, 75%, and 84% aa sequence identity with chimpanzee, dog, rat, mouse and chicken CPB1, respectively.

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