

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carboxypeptidase A2/CPA2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) CPA1, rhCPA4, rhCPB1, or rhCPE is observed. Recognizes the pro form (aa 17-417), but not
Source	Monoclonal Mouse IgG _{2B} Clone # 384023
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carboxypeptidase A2/CPA2 Leu18-His417 Accession # P48052
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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 A2 encoded by the CPA2 gene cleaves the C-terminal amide or ester bond of peptides that have a free C-terminal carboxyl group (1). It prefers the C-terminal residues with aromatic side chains including Phe, Tyr, and Trp. The deduced amino acid sequence of human CPA2 consists of a signal peptide (aa 1 to 16), a pro region (aa 17 to 112), and a mature chain (aa 113 to 417). The amino acid sequence of human CPA2 is 99.5%, 90%, 87%, 86% and 70% identical to that of chimpanzee, canine, rat, mouse and chicken.

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