

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Carboxypeptidase A1/CPA1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 25% cross-reactivity with recombinant mouse (rm) Carboxypeptidase A1 is observed and no cross-reactivity with recombinant hu
Source	Monoclonal Rat IgG _{2B} Clone # 477305
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Carboxypeptidase A1/CPA1 Lys17-Tyr419 Accession # P15085
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 A1 encoded by the CPA1 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 or branched aliphatic side chains including Phe, Tyr, Trp, Leu or Ile. It is important in the degradation of food proteins to produce essential amino acids such as Phe and Trp. The deduced amino acid sequence of human CPA1 consists of a signal peptide (residues 1 to 16), a pro region (residue 17 to 110), and a mature chain (residues 111 to 419). The purified rhCPA1 corresponds to the pro form.

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