

Product datasheet for **TA396993S**

CPA1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	WB: 1:300 - 1:2,000 IHC: User Optimized ELISA: 1:3,000 - 1:10,000
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Carboxypeptidase A [Bovine Pancreas]
Specificity:	Carboxypeptidase A is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Carboxypeptidase A [Bovine Pancreas]. Cross reactivity against Carboxypeptidase A from other tissues and species may occur but have not been specifically determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	HRP
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	P00730



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- Background:** Carboxypeptidase A (CPA-1) is produced in the pancreas and is crucial to many processes in the human body to include digestion, post-translational modification of proteins, blood clotting, and reproduction. There are two proposed mechanisms for the catalytic function of carboxypeptidase A. The first is a nucleophilic pathway involving a covalent acyl enzyme intermediate containing active site base Glu-270. The second proposed mechanism is a promoted water pathway. This mechanism involves attack of a water molecule at the scissile peptide linkage of the substrate.
- Synonyms:** rabbit anti-Carboxypeptidase A antibody peroxidase conjugation, HRP conjugated rabbit anti-Carboxypeptidase A Antibody, Carboxypeptidase A1 precursor antibody, CPA1 antibody, Pancreatic carboxypeptidase A1 antibody, Procarboxypeptidase A1 pancreatic antibody
- Note:** Anti-Carboxypeptidase A Peroxidase Conjugated Antibody has been tested by ELISA and western blot and is useful in immunohistochemistry. Optimal titers should be obtained by researchers.