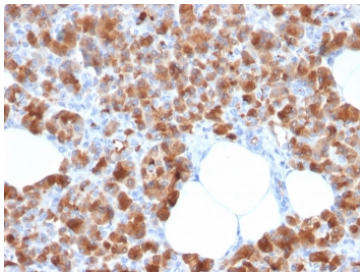
# Carboxypeptidase A1 Antibody / CPA1 [clone CPA1/2713] (V7690)

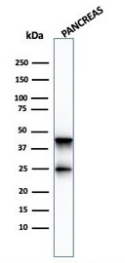
| Catalog No. | Formulation | Size |
|---|---|---|
| V7690-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V7690-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V7690SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

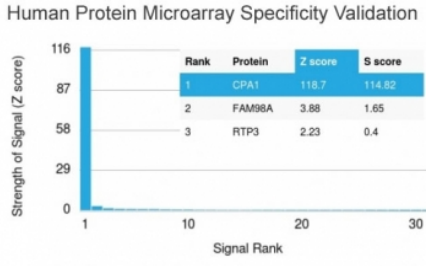
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | CPA1/2713 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P15085 |
| **Localization** | Cytoplasmic, secreted |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml<br>Western Blot : 1-2ug/ml |
| **Limitations** | This Carboxypeptidase A1 antibody is available for research use only. |



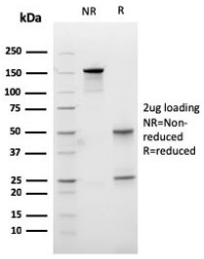
IHC staining of FFPE human pancreas with Carboxypeptidase A1 antibody (clone CPA1/2713). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.




Western blot testing of human pancreas lysate with Carboxypeptidase A1 antibody (clone CPA1/2713). Predicted molecular weight ~47 kDa.




Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Carboxypeptidase A1 antibody (clone CPA1/2713). These results demonstrate the foremost specificity of the CPA1/2713 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.




SDS-PAGE analysis of purified, BSA-free Carboxypeptidase A1 antibody (clone CPA1/2713) as confirmation of integrity and purity.

## Description

Human pancreatic procarboxypeptidase A exists as three different active forms, two of which are designated carboxypeptidase A1 (CPA1) and carboxypeptidase A2 (CPA2). CPA1, also known as CPA, is a 419 amino acid secreted monomeric protein that is highly expressed in pancreatic tissue. Functioning as a pancreatic exopeptidase, CPA1 uses zinc as a cofactor to catalyze the release of C-terminal amino acids from a variety of proteins, thereby playing a key role in protein digestion and degradation. Via its catalytic activity, CPA1 is also thought to be involved in zymogen (proenzyme) inhibition, probably functioning to block enzyme activation pathways. Abnormal levels of CPA1 are associated with pancreatic cancer, suggesting a possible role in either tumor progression or tumor suppression events.

## Application Notes

Optimal dilution of the Carboxypeptidase A1 antibody should be determined by the researcher.

## Immunogen

Full length recombinant human protein was used as the immunogen for the Carboxypeptidase A1 antibody.

## Storage

Store the Carboxypeptidase A1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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