

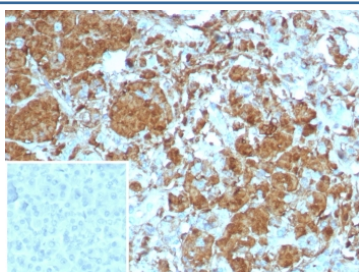
## Carboxypeptidase A1 Antibody / CPA1 [clone CPA1/8258R] (V5258)

| Catalog No.    | Formulation                                                             | Size   |
|----------------|-------------------------------------------------------------------------|--------|
| V5258-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V5258-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V5258SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

Recombinant **RABBIT MONOCLONAL**

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|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Availability       | 1-3 business days                                                     |
| Species Reactivity | Human                                                                 |
| Format             | Purified                                                              |
| Clonality          | Recombinant Rabbit Monoclonal                                         |
| Isotype            | Rabbit IgG, kappa                                                     |
| Clone Name         | CPA1/8258R                                                            |
| Purity             | Protein A/G affinity                                                  |
| UniProt            | P15085                                                                |
| Localization       | Secreted                                                              |
| Applications       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT               |
| Limitations        | This Carboxypeptidase A1 antibody is available for research use only. |



IHC staining of FFPE human pancreas tissue with Carboxypeptidase A1 antibody (clone CPA1/8258R). Inset: PBS used in place of primary Ab (secondary Ab negative control).  
 HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

### 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**

Recombinant full-length human protein was used as the immunogen for the Carboxypeptidase A1 antibody.

## **Storage**

Aliquot the Carboxypeptidase A1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.