

For Research Use Only

# CPA1 Recombinant monoclonal antibody

Catalog Number: 88295-1-RR



## Basic Information

|                                            |                                                       |                                                                           |
|--------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>88295-1-RR       | <b>GenBank Accession Number:</b><br>BC005279          | <b>Purification Method:</b><br>Protein A purification                     |
| <b>Source:</b><br>Rabbit                   | <b>GeneID (NCBI):</b><br>1357                         | <b>CloneNo.:</b><br>260663D6                                              |
| <b>Isotype:</b><br>IgG                     | <b>UNIPROT ID:</b><br>P15085                          | <b>Recommended Dilutions:</b><br>WB: 1:5000-1:50000<br>IF-P: 1:250-1:1000 |
| <b>Immunogen Catalog Number:</b><br>AG8586 | <b>Full Name:</b><br>carboxypeptidase A1 (pancreatic) |                                                                           |
|                                            | <b>Calculated MW:</b><br>419 aa, 47 kDa               |                                                                           |
|                                            | <b>Observed MW:</b><br>44-47 kDa                      |                                                                           |

## Applications

|                                                       |                                                                                 |
|-------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IF-P, ELISA        | <b>Positive Controls:</b>                                                       |
| <b>Species Specificity:</b><br>human, mouse, rat, pig | <b>WB :</b> mouse pancreas tissue, rat pancreas tissue, pig pancreas tissue     |
|                                                       | <b>IF-P :</b> human pancreas tissue, mouse pancreas tissue, rat pancreas tissue |

## Background Information

CPA1(Carboxypeptidase A1) is also named as CPA and belongs to the the peptidase M14 family. CPA1 is one of the genes whose expression in the pancreas and the protein which it encodes is synthesized as an inactive precursor, proCPA1, which is processed to the active enzyme by the proteolytic removal of the 95-amino acid N-terminal prodomain. The mature CPA1 is not secreted and is trapped and degraded intracellularly(PMID:8639628). This antibody is specific to CPA1.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

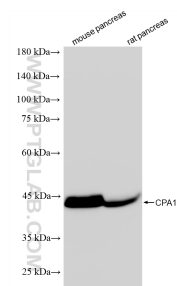
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

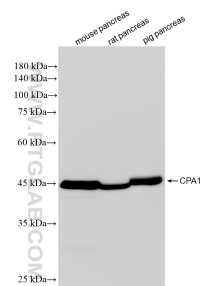
W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

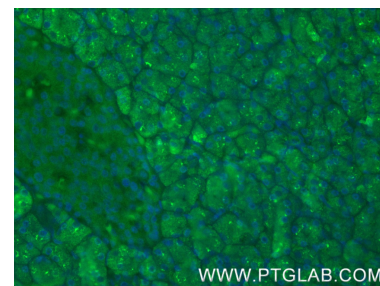
## Selected Validation Data



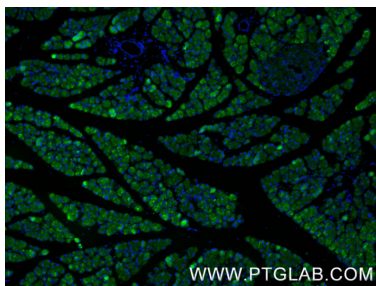
Various lysates were subjected to SDS PAGE followed by western blot with 88295-1-RR (CPA1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



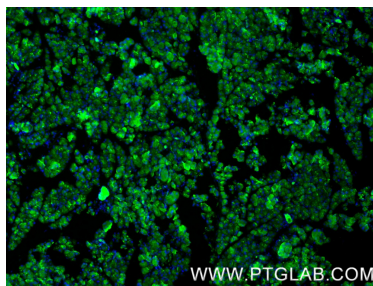
Various lysates were subjected to SDS PAGE followed by western blot with 88295-1-RR (CPA1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human pancreas tissue using CPA1 antibody (88295-1-RR, Clone: 260663D6) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat pancreas tissue using CPA1 antibody (88295-1-RR, Clone: 260663D6) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse pancreas tissue using CPA1 antibody (88295-1-RR, Clone: 260663D6) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).