

Datasheet for ABIN6939174

anti-CPA1 antibody

5 Images

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Overview

Quantity:	100 µg
Target:	CPA1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CPA1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human CPA1 protein
Clone:	CPA1-2714
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CPA1
Alternative Name:	CPA1 (CPA1 Products)
Background:	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

Target Details

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.

Molecular Weight: 47kDa

Gene ID: 1357

UniProt: [P15085](#)

Application Details

Application Notes: Positive Control: Pancreas.
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

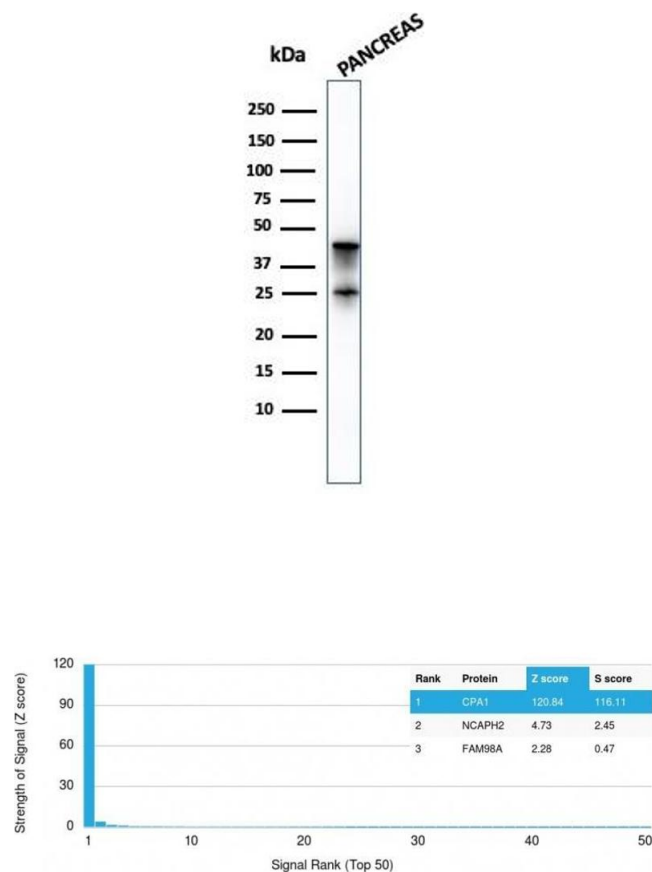
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

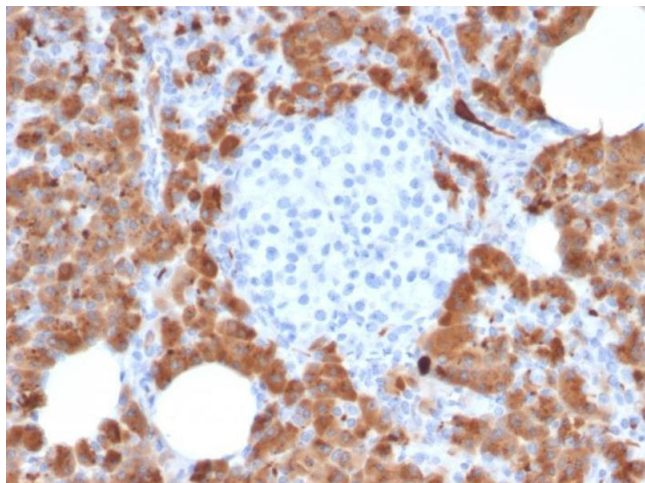


Western Blotting

Image 1. Western Blot Analysis of pancreatic tissue lysate using Carboxypeptidase A1 / CPA1 Mouse Monoclonal Antibody (CPA1/2714).

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Carboxypeptidase A1 / CPA1 Mouse Monoclonal Antibody (CPA1/2714). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Pancreas stained with Carboxypeptidase A1 / CPA1 Mouse Monoclonal Antibody (CPA1/2714).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6939174.