



# Pancreasin (Y-18): sc-82279

## BACKGROUND

Serine proteases are important in many biological processes such as receptor activation, complement activation, coagulation and tissue remodeling. Pancreasin, also known as marapsin (MPN), channel activating protease 2-like protein (CAHP2) or protease, serine 27, is an N-glycosylated, secreted pancreatic tryptic serine peptidase and proteinase. Pancreasin is responsible for cleaving peptides after an Arginine residue and may play a role in regulating cell growth and migration. It can be inhibited by benzamidine and Leupeptin. Pancreasin is closely related to prostatic, Trypsin  $\gamma$ , Testisin and Trypsin  $\epsilon$ . These proteins share approximately 40% amino acid identity with trypsin  $\alpha$  and trypsin  $\beta$ . They contain Cysteine residues that may form a disulfide link between the propeptide and catalytic chain, a tryptic propeptide cleavage site and a C-terminal membrane anchor. Trypsin  $\epsilon$  and the human Pancreasin protein lack the characteristic C-terminal membrane anchor.

## REFERENCES

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## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## CHROMOSOMAL LOCATION

Genetic locus: PRSS27 (human) mapping to 16p13.3.

## SOURCE

Pancreasin (Y-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Pancreasin of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82279 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Pancreasin (Y-18) is recommended for detection of Pancreasin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Pancreasin siRNA (h): sc-72312, Pancreasin shRNA Plasmid (h): sc-72312-SH and Pancreasin shRNA (h) Lentiviral Particles: sc-72312-V.

Molecular Weight of Pancreasin: 32 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.