

Pancreatic Polypeptide (h): 293T Lysate: sc-159782

BACKGROUND

Pancreatic Polypeptide (PP) and Pancreatic Icosapeptide (PI) are both deduced from the pancreatic prohormone precursor. The two peptide sequences are separated by a Gly-Lys-Arg cleavage and amidation site. The Pancreatic Polypeptide lies on the N-terminal side of this cleavage site while the Pancreatic Icosapeptide lies on the C-terminal side. The prohormone precursor is produced by the endocrine F cells of the pancreatic islets and, in response to food intake, the Pancreatic Polypeptide is released into the circulation. The Pancreatic Polypeptide is a member of the neuropeptide Y (NPY) family of hormones that bind to Y receptors. In particular, it binds to Y4 receptors and functions as an anorexigenic hormone. Subjects with Prader-Willi syndrome have a decreased Pancreatic Polypeptide response to a meal. Administration of Pancreatic Polypeptide decreases food intake and may serve as a therapeutic option for treatment of obesity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPY (human) mapping to 17q21.31.

PRODUCT

Pancreatic Polypeptide (h): 293T Lysate represents a lysate of human Pancreatic Polypeptide transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Pancreatic Polypeptide (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Pancreatic Polypeptide antibodies. Recommended use: 10-20 µl per lane.

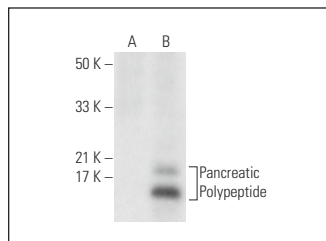
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Pancreatic Polypeptide (B-2): sc-514155 is recommended as a positive control antibody for Western Blot analysis of enhanced human Pancreatic Polypeptide expression in Pancreatic Polypeptide transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

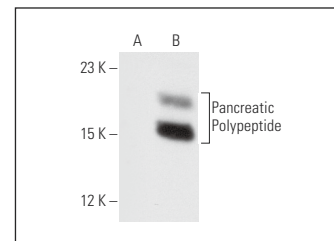
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Pancreatic Polypeptide (B-2): sc-514155. Western blot analysis of Pancreatic Polypeptide expression in non-transfected: sc-117752 (A) and human Pancreatic Polypeptide transfected: sc-159782 (B) 293T whole cell lysates.



Pancreatic Polypeptide (030-06-1): sc-80494. Western blot analysis of Pancreatic Polypeptide expression in non-transfected: sc-117752 (A) and human Pancreatic Polypeptide transfected: sc-159782 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.