# Proglucagon (h3): 293T Lysate:



The Power to Question

## **BACKGROUND**

Glucagon is a pancreatic hormone that functions as an antagonist to Insulin, stimulating the conversion of glycogen to glucose and increasing blood sugar levels. Glucagon-like peptide-1 (GLP-1) and Glucagon-like peptide-2 (GLP-2) are members of the Glucagon family of hormones that are formed through posttranslational modification of the Glucagon precursor, proglucagon. Glucagon functions as a transmitter in the central nervous system, inhibiting eating and drinking behavior by suppressing gastric emptying, thus creating the sensation of being full. In addition to regulating blood glucose levels, Glucagon plays important roles in maintaining nutrient homeostasis, promoting intestinal epithelial growth and inhibiting  $\beta$  cell apoptosis. In response to Insulininduced hypoglycemia, Glucagon raises glucose levels in the blood, thereby initiating a hyperglycemic environment. Glucagon is pharmaceutically available to treat hypoglycemia in diabetics.

## **REFERENCES**

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- Martinez-Fuentas, A.J., et al. 1998. Pituitary adenylate cyclase-activating polypeptide (PACAP) 38 and PACAP27 activate common and distinct intracellular signaling pathways to stimulate growth hormone secretion from porcine somatotropes. Endocrinology 139: 5116-5124.

## CHROMOSOMAL LOCATION

Genetic locus: GCGR (human) mapping to 2q24.2.

#### **PRODUCT**

Proglucagon (h3): 293T Lysate represents a lysate of human Proglucagon transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

#### 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.

#### **APPLICATIONS**

Proglucagon (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive Proglucagon antibodies. Recommended use:  $10\text{-}20~\mu l$  per lane.

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

# **PROTOCOLS**

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

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