**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), Glucagon-like peptide-2 (GLP-2), VIP (vasoactive intestinal peptide) and PACAP (pituitary adenylate cyclase activating polypeptide) are members of the glucagon family of hormones. GLP-1 functions as a transmitter in the central nervous system, inhibiting feeding and drinking behavior, whereas GLP-2 is a stimulator of intestinal epithelial growth. VIP causes vasodilation resulting in the lowering of blood pressure. PACAP is abundant in the hypothalamus and has been shown to increase the synthesis of several hormones, including growth hormone.

**CHROMOSOMAL LOCATION**

Genetic locus: GCG (human) mapping to 2q24.2; Gcg (mouse) mapping to 2C1.3.

**SOURCE**

Glucagon (FL-180) is a rabbit polyclonal antibody raised against amino acids 1-180 representing full length Glucagon of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Glucagon (FL-180) is recommended for detection of Proglucagon, Glucagon, GLP-1 and GLP-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Glucagon (FL-180) is also recommended for detection of Proglucagon, Glucagon, GLP-1 and GLP-2 in additional species, including equine, canine and bovine.

Molecular Weight of Glucagon: 3.4 kDa.

Molecular Weight of Proglucagon: 19 kDa.

Positive Controls: mouse pancreas extract: sc-364244 or NIH/3T3 whole cell lysate: sc-2210.

**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 or our catalog for detailed protocols and support products.

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**RESEARCH USE**

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

**DATA**

Glucagon (FL-180): sc-13091. Western blot analysis of Glucagon expression in mouse pancreas tissue extract.

Glucagon (FL-180): sc-13091. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of islets of Langerhans.

**SELECT PRODUCT CITATIONS**


Try Glucagon (C-11): sc-514592 or Glucagon (K79bB10): sc-57171; our highly recommended monoclonal alternatives to Glucagon (FL-180). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see Glucagon (C-11): sc-514592.