# Glucagon Receptor (P-15): sc-34641



The Power to Question

## **BACKGROUND**

Glucagon, a pancreatic hormone, functions as an antagonist to Insulin, stimulating the conversion of glycogen to glucose and increasing blood sugar levels. GLP-1 functions as a transmitter in the central nervous system, inhibiting feeding and drinking behavior. Both glucagon and GLP-1 function through their specific binding to the glucagon receptor or GLP-1R, respectively. The Glucagon Receptor shows expression in liver, kidney and adipose tissue. The GLP-1R expression primarily localizes to areas of the hypothalamus involved in feeding behavior. Both receptors and their ligands serve as potential targets for the therapeutic treatment of diabetes.

## **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: GCGR (human) mapping to 17; Gcgr (mouse) mapping to 11 E2.

# SOURCE

Glucagon Receptor (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of Glucagon Receptor of human origin.

## **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.

#### **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-34641 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

Glucagon Receptor (P-15) is recommended for detection of Glucagon Receptor 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Glucagon Receptor (P-15) is also recommended for detection of Glucagon Receptor in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Glucagon Receptor siRNA (h): sc-45765, Glucagon Receptor siRNA (m): sc-45766, Glucagon Receptor shRNA Plasmid (h): sc-45765-SH, Glucagon Receptor shRNA Plasmid (m): sc-45766-SH, Glucagon Receptor shRNA (h) Lentiviral Particles: sc-45765-V and Glucagon Receptor shRNA (m) Lentiviral Particles: sc-45766-V.

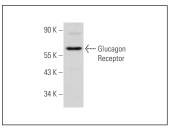
Molecular Weight of Glucagon Receptor: 62 kDa.

Positive Controls: mouse adrenal gland extract: sc-364237.

# **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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



Glucagon Receptor (P-15): sc-34641. Western blot analysis of Glucagon Receptor expression in mouse adrenal gland tissue extract.

## **RESEARCH USE**

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