Rabbit polyclonal antibody to Glucagon Receptor

Catalog Number: NLS4258

Background: The Glucagon Receptor mediates the effects of glucagon in controlling glucose metabolism by initiating a cascade of events that regulate the amount of glucose released from the liver into the bloodstream. Glucagon generally functions as a counterregulatory hormone, opposing the actions of insulin, in maintaining the levels of blood glucose, particularly in patients with hypoglycemia. In patients with diabetes, excess glucagon secretion plays a primary role in the metabolic perturbations associated with diabetes, such as hyperglycemia. Glucagon knockout mice exhibit reduced blood glucose levels, improved glucose tolerance, elevated blood glucagon levels, and normal insulin levels. Despite a total absence of glucagon receptors, these animals maintained near-normal glycemia and normal lipidemia, in the presence of circulating glucagon concentrations that were elevated by two orders of magnitude. A missense mutation (Gly40Ser) in the glucagon receptor gene is associated with non-insulin-dependent diabetes mellitus. The glucagon receptor has been reported to be expressed in liver and adipose, but not in adrenal medulla. ESTs have been isolated from liver/spleen and kidney libraries.

Host: Rabbit

Research Areas: GPCR (G Protein-Coupled Receptor), Glucagon Receptor

Immunogen: Synthetic peptide [KLH conjugated] made to the N-term extracellular

Species Reactivity: Human.

Uses: Immunohistochemistry with formalin fixed paraffin embedded tissues. Not tested for other uses.

* Other applications have not been tested.

Dilutions: Suggested working dilutions *

* Investigator should determine optimal working dilutions.

Packaging: 0.05 ml of affinity purified sera

Concentration: 1 mg/ml

Buffer: PBS [pH7.7] containing 0.01% sodium azide

Storage: Long term: -70 degrees C; Short term: 4 degrees C

Notes: Genbank accession number: NM_000160

Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.