Glucagon Polyclonal ANTIBODY

Catalog Number: 15954-1-AP

Basic Information

Catalog Number: 15954-1-AP
Size: 36 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Affinity purification
Immunogen Catalog Number: AG8677

GeneBank Accession Number: BC006278
GenID (NCBI): 2641
Full Name: glucagon
Calculated MW: 180aa, 21 kDa
Observed MW: 18

Recommended Dilutions:
IHC: 1:20-1:200
IF: 1:50-1:500

Applications

Tested Applications:
IF, IHC, ELISA

Cited Applications:
IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Recommended Dilutions:
IHC: 1:20-1:200
IF: 1:50-1:500

Positive Controls:
IHC: human pancreas tissue; human small intestine tissue, human colon tissue, mouse small intestine tissue, rat small intestine tissue
IF: human pancreas cancer tissue; human breast cancer tissue

Background Information

Glucagon is a 29-amino acid peptide hormone secreted from the pancreatic alpha cells with a powerful stimulatory effect on hepatic glucose production acting to increase plasma glucose levels. Glucagon is best known as the counter-regulatory hormone to insulin, and normal glucose homeostasis depends largely on the balanced secretion of insulin and glucagon from the pancreatic beta and alpha cells, respectively. The regulation of glucose metabolism by glucagon is mediated by its direct action on the peripheral tissues such as the liver and also by the brain. Glucagon is also released postprandially in a transient manner, which was shown to be involved in inhibition of food intake via reduction of meal size.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicholas C. Vierra</td>
<td>28928238</td>
<td>Sci Signal</td>
<td>IF</td>
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<tr>
<td>Nicholas C. Vierra</td>
<td>29402588</td>
<td>Mol Metab</td>
<td>IHC</td>
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<td>Kunhua Qin</td>
<td>25022219</td>
<td>Diabetologia</td>
<td>IHC</td>
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Storage

Storage: Store at -20°C. Stable for one year after shipment.

Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Immunohistochemical of paraffin-embedded human pancreas using 15954-1-AP (GCG antibody) at dilution of 1:200 (under 10x lens)

Immunohistochemical of paraffin-embedded human pancreas using 15954-1-AP (GCG antibody) at dilution of 1:200 (under 40x lens)

Immunofluorescent analysis of (4% PFA) fixed human pancreas cancer tissue using 15954-1-AP (Glucagon antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)