Overview

Product name: Anti-Glucagon antibody [K79bB10] ab10988

Description: Mouse monoclonal [K79bB10] to Glucagon

Host species: Mouse

Tested applications: Suitable for: IHC-P, ICC/IF, IHC-Fr, RIA, Dot blot

Species reactivity: Reacts with: Mouse, Rat, Dog, Human, Pig, Common marmoset

Predicted to work with: Rabbit, Guinea pig, Cat, Syrian hamster

Immunogen: Polymerized porcine glucagon.

Positive control: Pancreatic glucagon for RIA.

General notes: Production of this antibody has been changed on 8th July 2016. The following lots are from ascites and are still in stock as of 8th July 2016: GR260160 and GR268340. Lot numbers higher than GR268340 will be purified from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly.

If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

Properties

Form: Liquid

Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer: pH: 7.4

Preservative: 0.097% Sodium azide

Constituent: PBS

Purity: Proprietary Purification

Purification notes: Purified from Tissue culture supernatant.

Clonality: Monoclonal

Clone number: K79bB10

Isotype: IgG1

Applications

Product datasheet

Anti-Glucagon antibody [K79bB10] ab10988

11 Abreviews  56 References  5 Images
Glucagon is a hormone that is secreted by alpha cells in the pancreas. Glucagon antagonizes insulin by converting glycogen to glucose in the liver and increasing blood sugar levels. Glucagon-like peptide 1 (GLP1), Glucagon-like peptide 2 (GLP2), VIP (vasoactive intestinal peptide) and PACAP (pituitary adenylate cyclase activating polypeptide) are in the glucagons hormone family. GLP1 is a transmitter in the central nervous system that regulates feeding and drinking behavior. GLP2 stimulates intestinal epithelial growth.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucagon antibody [K79bB10] (ab10988)**

This image is courtesy of an Abreview submitted by Dr Jane Hu.

Our **Abpromise guarantee** covers the use of **ab10988** in the following tested applications.

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<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-Fr</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration. PubMed: 21821034</td>
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<td>RIA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<td>Dot blot</td>
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</table>

**Target**

**Relevance**

Glucagon is a hormone that is secreted by alpha cells in the pancreas. Glucagon antagonizes insulin by converting glycogen to glucose in the liver and increasing blood sugar levels. Glucagon-like peptide 1 (GLP1), Glucagon-like peptide 2 (GLP2), VIP (vasoactive intestinal peptide) and PACAP (pituitary adenylate cyclase activating polypeptide) are in the glucagons hormone family. GLP1 is a transmitter in the central nervous system that regulates feeding and drinking behavior. GLP2 stimulates intestinal epithelial growth.

**Cellular localization**

Secreted

**Images**

ab10988 at 1/200 staining mouse pancreas tissue sections by IHC-P. The tissue sections were paraformaldehyde fixed and blocked with serum prior to incubation with the antibody for 16 hours at 4°C. A Texas Red conjugated donkey anti-mouse antibody was used as the secondary.
Immunohistochemical analysis of Mouse pancreas tissue sections labeling Glucagon with ab10988 at 1/1000 dilution.

Immunohistochemical analysis of Mouse pancreas tissue labeling Glucagon with ab10988 at 1/1000 dilution.
ab10988 staining Glucagon in rat pancreatic tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

Tissue was fixed in paraformaldehyde, blocked with 2% serum for 1 hour at 25°C, then incubated with ab10988 at a 1/200 dilution for 1 hour at 25°C. The secondary used was a donkey anti-mouse IgG (H+L) conjugated to Texas Red, used at a 1/250 dilution. Nuclei counterstained with DAPI, green is staining for insulin.

ab10988 staining human islets (beta cells) by ICC/IF. Cells were PFA fixed and blocked in 2% serum for 1 hour at 25°C prior to incubating with ab10988 for 1 hour at 25°C. A Cy3® conjugated goat anti-mouse antibody diluted 1/500 was used as the secondary.

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