

Product Datasheet

Glucagon Antibody (09) - BSA Free NBP2-21803

Unit Size: 0.1 ml

Store at 4C in the dark.

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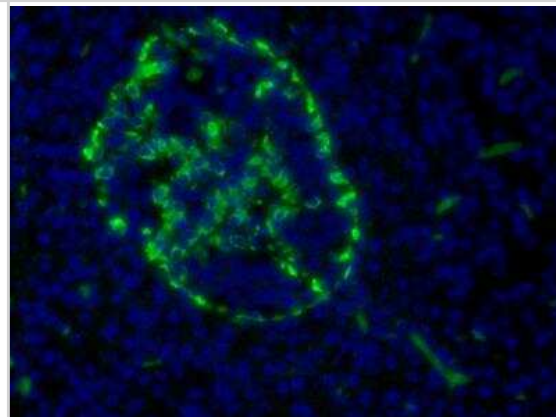
NBP2-21803

Glucagon Antibody (09) - BSA Free

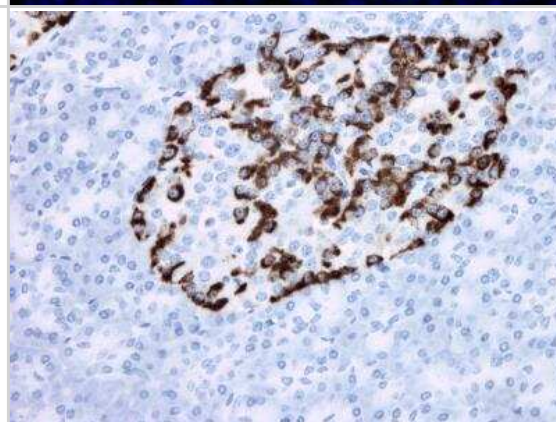
| Product Information | |
|-----------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | 1 mg/ml |
| Storage | Store at 4C in the dark. |
| Clonality | Monoclonal |
| Clone | 09 |
| Preservative | 0.9% Sodium Azide |
| Isotype | IgG1 Kappa |
| Purity | Protein A or G purified |
| Buffer | 10mM Phosphate (pH 7.4) and 0.5M NaCl |
| Product Description | |
| Host | Mouse |
| Gene ID | 2641 |
| Gene Symbol | GCG |
| Species | Human, Mouse, Rat, Porcine |
| Reactivity Notes | Use in Mouse reported in scientific literature (PMID:32953935). |
| Specificity/Sensitivity | Binds human glucagon. Cross-reacts less than 5% with oxyntomodulin. |
| Immunogen | Synthetic full length oxyntomodulin coupled to carrier. |
| Product Application Details | |
| Applications | ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Sandwich ELISA, Sandwich ELISA Capture |
| Recommended Dilutions | Flow Cytometry, ELISA 1:100-1:2000, Immunohistochemistry 1:8000, Immunocytochemistry/ Immunofluorescence 1:4000, Immunohistochemistry-Paraffin 1:8000, Sandwich ELISA 1:100-1:2000, Sandwich ELISA Capture |
| Application Notes | Use in Flow reported in scientific literature (PMID:33284818). ELISA: NBP2-21803 binds free glucagon in solution. NBP2-21803 when used as capture antibody forms a sandwich ELISA pair with NBP2-21802B as biotinylated detection antibody for measuring glucagon. IHC: NBP2-21803 was used in IHC in formaline fixed paraffin embedded tissue with a dilution of 1:8000. IF: NBP2-21803 was used in IF with a dilution of 1:4000. |

Images

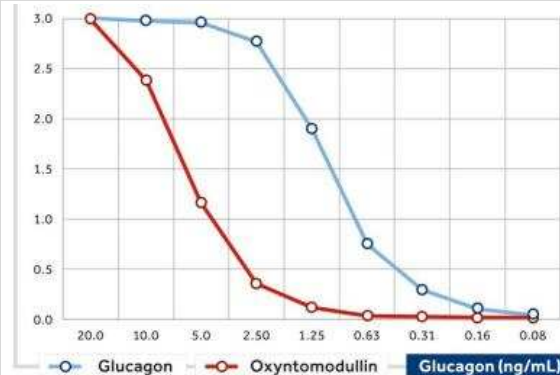
Immunocytochemistry/Immunofluorescence: Glucagon Antibody (09) [NBP2-21803] - Staining in human pancreas tissue. Signal is strong in alpha cells. Dilution: 1:4000



Immunohistochemistry-Paraffin: Glucagon Antibody (09) [NBP2-21803] - Staining of human pancreas tissue. Alpha cells of the Langerhans islet were stained strongly. Dilution: 1:8000



Sandwich ELISA: Glucagon Antibody (09) - BSA Free [NBP2-21803] - Glucagon Antibody (09) [NBP2-21803] - The calibration curve of a sandwich assay for Glucagon using NBP2-21803 as the capture antibody and NBP2-21802B as the biotinylated detection antibody.



Publications

W Tang, Y Zhong, Y Wei, Z Deng, J Mao, J Liu, TG Valencak, J Liu, H Xu, H Wang Ileum tissue single-cell mRNA sequencing elucidates the cellular architecture of pathophysiological changes associated with weaning in piglets *Bmc Biology*, 2022-05-30;20(1):123. 2022-05-30 [PMID: 35637473]

Wu Y, Wong CW, Chiles EN Et al. Glycerate from intestinal fructose metabolism induces islet cell damage and glucose intolerance *Cell Metab* 2022-06-10 [PMID: 35688154]

Details:

Citation using the Alexa Fluor 647 version of this antibody.

Xi Y, Song B, Ngan I et al. Glucagon-receptor-antagonism-mediated beta-cell regeneration as an effective anti-diabetic therapy *Cell reports* 2022-05-31 [PMID: 35649369] (ICC/IF)

Lau, H, Corrales, N Et al. An islet maturation media to improve the development of young porcine islets during in vitro culture. *Islets* 2020-05-03 [PMID: 32459554] (WB, Human)

Lau H, Corrales N, Rodriguez S et al. Dose-dependent effects of necrostatin-1 supplementation to tissue culture media of young porcine islets *PloS one* 2020-12-07 [PMID: 33284818] (FLOW, Porcine)

Zhao J, Yue Y, Patel A et al. High-Resolution Histological Landscape of AAV DNA Distribution in Cellular Compartments and Tissues following Local and Systemic Injection Molecular Therapy - Methods & Clinical Development 2020-09-01 [PMID: 32953935] (IF/IHC, Mouse)

Lau H, Corrales N, Alexander M et al. Necrostatin-1 supplementation enhances young porcine islet maturation and in vitro function *Xenotransplantation* [PMID: 31532037]





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Products Related to NBP2-21803

| | |
|------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) |
| NBP1-72384-100ug | Recombinant Human Glucagon His Protein |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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