

Product Datasheet

Glucagon Antibody - BSA Free NBP3-23954

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

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NBP3-23954

Glucagon Antibody - BSA Free

Product Information	
Unit Size	100 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	N/A
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

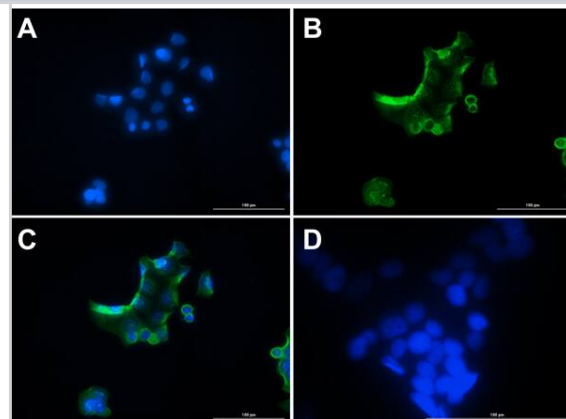
Product Description	
Description	Store vial at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Host	Rabbit
Gene ID	2641
Gene Symbol	GCG
Species	Human
Reactivity Notes	A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to human, chimpanzee, and bonobo.
Immunogen	Glucagon antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal portion of human Glucagon.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Application Notes	Tested in ELISA, IF, and Western Blot. Although not tested, this antibody is suitable in immunohistochemistry. Expect a band approximately ~20.9 kDa corresponding to the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.

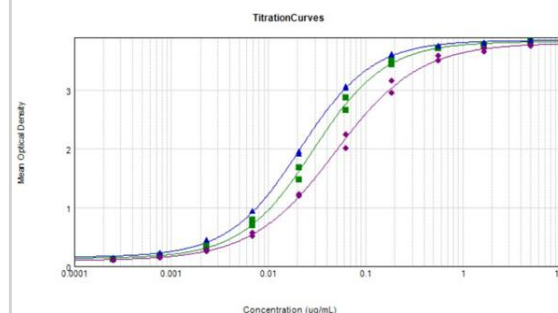


Images

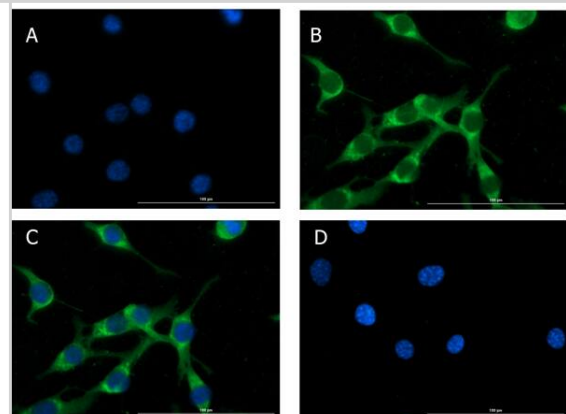
Immunoprecipitation: Glucagon Antibody [NBP3-23954] - Immunofluorescence of Glucagon Antibody. Cell Line: MCF7 cells. Fixative: 100% Methanol. Permeabilization: 0.3% Triton X-100. Primary Antibody: Anti-Glucagon at 15 μ g/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG DyLight™488 at 5 μ L/mL for 1hr at RT. Nuclear Counterstain: DAPI. Staining: (A). DAPI. (B). Anti-Glucagon + DyLight™488 secondary. (C). Merge A+B. (D). secondary only. Localization expected: Cytoplasm.



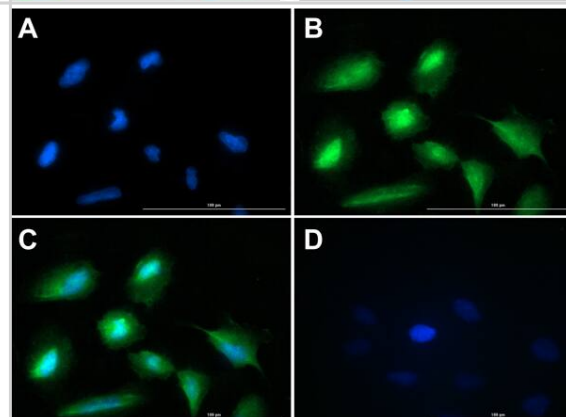
ELISA: Glucagon Antibody [NBP3-23954] - ELISA Results of Glucagon Antibody. Each well was coated with 1 μ g of conjugate. The starting concentration of antibody in the dilution series was 5 μ g/ml. The titer is 1:34,800 Glucagon - Free peptide [Green Line], 1:47200 Glucagon Standard - BSA conjugated [Blue Line], and 1:20,500 Glucagon - BSA conjugated [Purple Line]. Each point on the Y-axis represents a 3-fold dilution. 3% Fish Gel, HRP conjugated Goat anti-Rabbit IgG (H&L), and TMB substrate were used for detection.



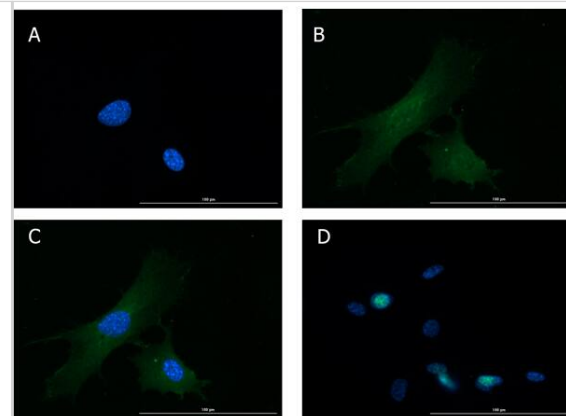
Immunocytochemistry/ Immunofluorescence: Glucagon Antibody [NBP3-23954] - Immunofluorescence of Glucagon Antibody. Cell Line: NIH/3T3 cells. Fixative: 100% Methanol. Permeabilization: Triton X-100. Primary Antibody: Anti-Glucagon at 15 μ g/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG DyLight™488 at 5 μ L/mL for 1hr at RT. Nuclear Counterstain: DAPI. Staining: (A). DAPI. (B). Anti-Glucagon + DyLight™488 secondary. (C). Merge A+B. (D). secondary only. Localization expected: Cytoplasm.



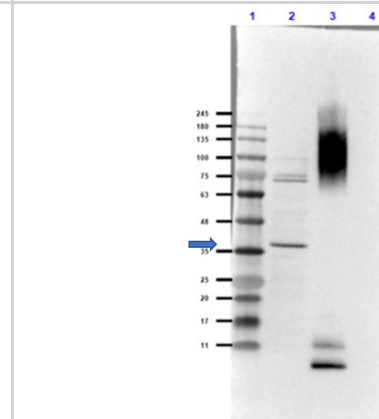
Immunocytochemistry/ Immunofluorescence: Glucagon Antibody [NBP3-23954] - Immunofluorescence of Glucagon Antibody. Cell Line: U2OS cells. Fixative: 4% PFA. Permeabilization: 0.3% Triton X-100. Primary Antibody: Anti-Glucagon at 15 μ g/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG DyLight™488 at 5 μ L/mL for 1hr at RT. Nuclear Counterstain: DAPI. Staining: (A). DAPI. (B). Anti-Glucagon + DyLight™488 secondary. (C). Merge A+B. (D). secondary only. Localization expected: Cytoplasm.



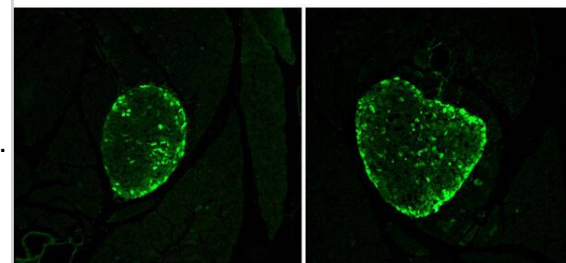
Immunocytochemistry/ Immunofluorescence: Glucagon Antibody [NBP3-23954] - Immunofluorescence of Glucagon Antibody. Cell Line: NIH/3T3 cells. Fixative: 4% PFA. Permeabilization: Triton X-100. Primary Antibody: Anti-Glucagon at 15µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG DyLight™488 at 5µL/mL for 1hr at RT. Nuclear Counterstain: DAPI. Staining: (A). DAPI. (B). Anti-Glucagon + DyLight™488 secondary. (C). Merge A+B. (D). secondary only. Localization expected: Cytoplasm.



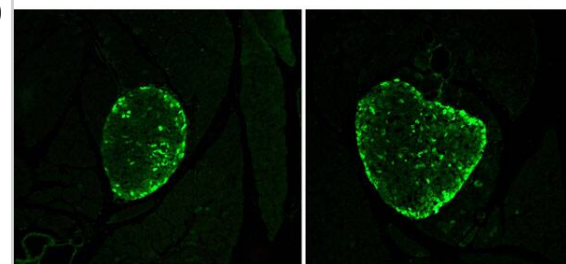
Western Blot: Glucagon Antibody [NBP3-23954] - Western Blot of Glucagon Antibody. Lane 1: Opal Prestained Molecular Weight. Lane 2: COS-7 Lysate - reduced (20µg). Lane 3: BSA Conjugated Glucagon peptide - reduced (0.02µg). Lane 4: Insulin - reduced (0.05µg). Primary Antibody: Anti-Glucagon [Rabbit] Antibody at 1.0µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG (MX10) Peroxidase conjugated at 1:70,000 for 30mins at RT. Block: Blocking Buffer for Fluorescent Western Blotting for 1hr at RT. Expected MW: ~21kDa. Observed MW: endogenous detection in COS-7 Lysate at ~35kDa. Glucagon peptide is detected at the MW of BSA. No cross-reactivity with insulin is observed. Exposure: 25 sec.



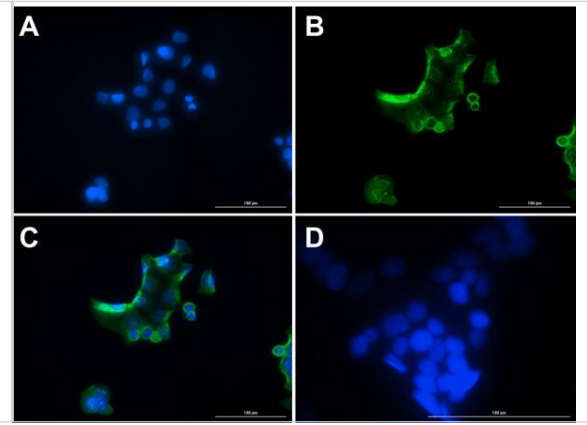
Immunohistochemistry: Glucagon Antibody [NBP3-23954] - Immunohistochemistry results using Glucagon Antibody. Tissue: alpha cells in CD1 mouse pancreatic islets. Fixation: 4% paraformaldehyde. Antigen Retrieval: 10mM Sodium Citrate buffer for 10 mins at 95-100°C. Blocking: PBS, 1% ovalbumin, 0.3% Triton X-100. Primary Antibody: Anti-Glucagon at 1:100 overnight at RT. Secondary Antibody: Anti-Rabbit Alexa Fluor 488 at 1:500 for 1hr at RT. Original magnification 20x. Courtesy of Prof. Merighi, University of Turin.



Immunohistochemistry results using Glucagon Antibody - BSA Free. Tissue: alpha cells in CD1 mouse pancreatic islets. Fixation: 4% paraformaldehyde. Antigen Retrieval: 10mM Sodium Citrate buffer for 10 mins at 95-100°C. Blocking: PBS, 1% ovalbumin, 0.3% Triton X-100. Primary Antibody: Glucagon Antibody - BSA Free at 1:100 overnight at RT. Secondary Antibody: Anti-Rabbit Alexa Fluor 488 at 1:500 for 1hr at RT. Original magnification 20x. Courtesy of Prof. Merighi, University of Turin.



Immunofluorescence of Glucagon Antibody - BSA Free. Cell Line: MCF7 cells. Fixative: 100% Methanol. Permeabilization: 0.3% Triton X-100. Primary Antibody: Glucagon Antibody - BSA Free at 15µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG DyLight™488 at 5µL/mL for 1hr at RT. Nuclear Counterstain: DAPI. Staining: (A). DAPI. (B). Anti-Glucagon + DyLight™488 secondary. (C). Merge A+B. (D). secondary only. Localization expected: Cytoplasm.





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Products Related to NBP3-23954

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
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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