

# Product Datasheet

## Glucagon R/GCGR Antibody - BSA Free NLS4256

Unit Size: 0.05 ml

Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.

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**NLS4256****Glucagon R/GCGR Antibody - BSA Free**

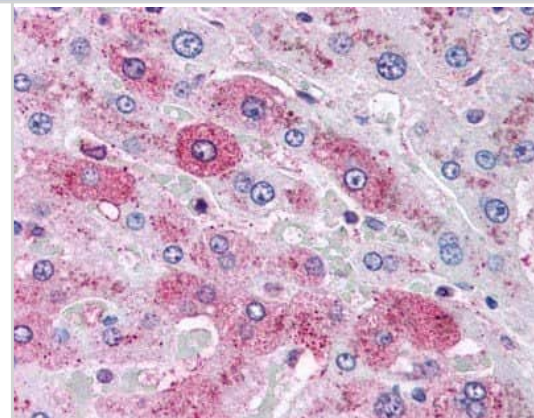
<b>Product Information</b>	
<b>Unit Size</b>	0.05 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS

<b>Product Description</b>	
<b>Description</b>	Product can be stored undiluted at 4C for up to 1 month.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2642
<b>Gene Symbol</b>	GCGR
<b>Species</b>	Human, Rat, Primate, Monkey
<b>Reactivity Notes</b>	Human, Rat reactivity reported in (PMID:23685839). Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Mouse (89%), Hamster (89%), Bovine (89%), Canine (89%).
<b>Specificity/Sensitivity</b>	Human Glucagon R/GCGR. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
<b>Immunogen</b>	Synthetic 18 amino acid peptide from N-terminal extracellular domain of human Glucagon R/GCGR.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin 13 ug/ml
<b>Application Notes</b>	Use in WB reported in scientific literature (PMID: 23685839).

**Images**

Immunohistochemistry-Paraffin: Glucagon R/GCGR Antibody [NLS4256]  
- Analysis of anti-Glucagon Receptor antibody with human liver.



## Publications

Mieczkowska A, Bouvard B, Legrand E, Mabilleau G [Gly2]-GLP-2, But Not Glucagon or [D-Ala2]-GLP-1, Controls Collagen Crosslinking in Murine Osteoblast Cultures *Frontiers in endocrinology* 2021-08-04 [PMID: 34421828] (WB)

LaPierre MP, Abraham MA, Yue JT et al. Glucagon signalling in the dorsal vagal complex is sufficient and necessary for high-protein feeding to regulate glucose homeostasis in vivo. *EMBO Rep.* 2015-08-19 [PMID: 26290496]

Mighiu PI, Yue JT, Filippi BM et al. Hypothalamic glucagon signaling inhibits hepatic glucose production. *Nat Med* 2013-06-01 [PMID: 23685839] (WB, Rat, Human)



## Procedures

### Immunohistochemistry Protocol for Glucagon Receptor Antibody (NLS4256)

Immunohistochemistry Protocol for Glucagon Receptor Antibody (NLS4256):

Immunohistochemistry

1. Prepare tissue with formalin fixation and by embedding it in paraffin wax.
2. Make 4 um sections and place on pre-cleaned and charged microscope slides.
3. Heat in a tissue-drying oven for 45 minutes @ 60 degrees Celcius.
4. Deparaffinize the tissues by wash drying the slides in 3 changes of xylene for 5 minutes each @ RT.
5. Rehydrate the tissues by washing the slides in 3 changes of 100% alcohol for 3 minutes each @ RT.
6. Wash the slides in 2 changes of 95% alcohol for 3 minutes each @ RT.
7. Wash the slides in 1 change of 80% alcohol for 3 minutes @ RT.
8. Rinse the slides in gentle running distilled water for 5 minutes @ RT.
9. Perform antigen retrieval by steaming the slides in 0.01M sodium citrate buffer (pH 6.0) @ 99-100 degrees Celcius for 20 minutes.
10. Remove the slides from the heat and let stand in buffer @ RT for 20 minutes.
11. Rinse the slides in 1X TBS-T for 1 minute @ RT.

**\*\*Do not allow the tissues to dry at any time during the staining procedure\*\***

12. Begin the immunostaining by applying a universal protein block for 20 minutes @ RT.
13. Drain protein block from the slides and apply the diluted primary antibody for 45 minutes @ RT.
14. Rinse the slide in 1X TBS-T for 1 minute @ RT.
15. Apply a biotinylated anti-rabbit IgG (H+L) secondary for 30 minutes @ RT.
16. Rinse the slide in 1X TBS-T for 1 minute @ RT.
17. Apply an alkaline phosphatase streptavidin for 30 minutes @ RT.
18. Rinse the slide in 1X TBS-T for 1 minute @ RT.
19. Apply an alkaline phosphatase chromagen substrate for 30 minutes @ RT.
20. Rinse the slide in distilled water for 1 minute @ RT.

**\*\*This method should only be used if the chromagen substrate is alcohol insoluble (ie: Vector Red, DAB)\*\***

21. Dehydrate the tissue by washing the slides in 2 changes of 80% alcohol for 1 minute each @ RT.
22. Wash the slides in 2 changes of 95% alcohol for 1 minute each @ RT.
23. Wash the slides in 3 changes of 100% alcohol for 1 minute each @ RT.
24. Wash the slides in 3 changes of xylene for 1 minute each @ RT.
25. Apply cover slip.





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### **Products Related to NLS4256**

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NBL1-11006	Glucagon R/GCGR Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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