

# Product Datasheet

## GPR103 Antibody - BSA Free NLS1922

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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**NLS1922**

GPR103 Antibody - BSA Free

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

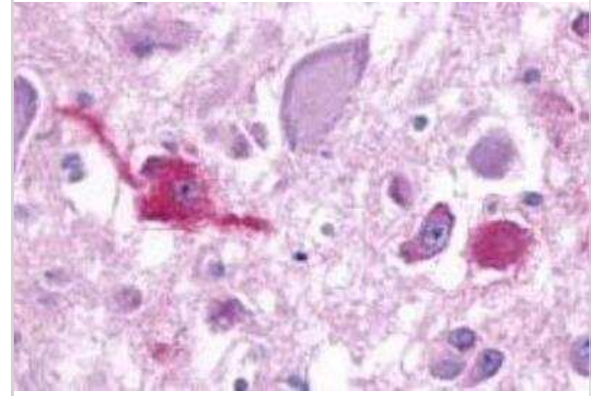
Product Description	
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	84109
Gene Symbol	QRFPR
Species	Human
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (95%), Gibbon (95%), Marmoset (95%), Canine (85%), Equine (80%), Rabbit (80%).
Specificity/Sensitivity	Human GPR103. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 20 amino acid peptide from the C-terminal cytoplasmic domain of human GPR103.

Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 10 ug/ml

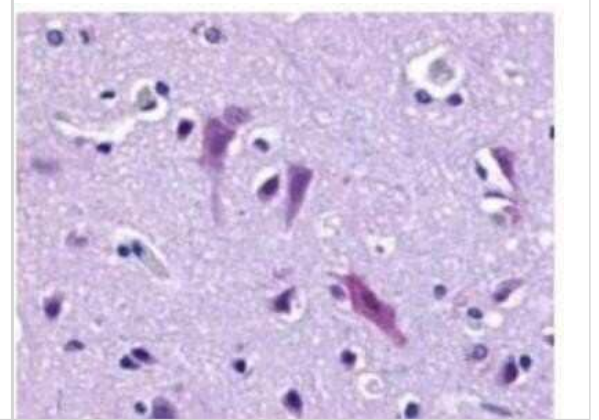


## Images

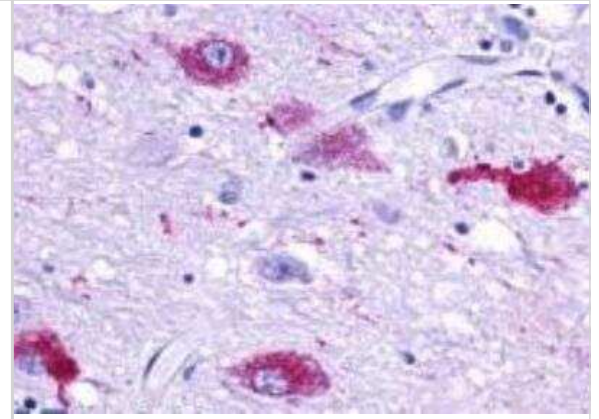
Immunohistochemistry-Paraffin: GPR103 Antibody [NLS1922] - Brain, Hypothalamus, PVN



Immunohistochemistry-Paraffin: GPR103 Antibody [NLS1922] - Analysis of anti-QRFPR / GPR103 antibody with human brain, neurons and glia. at 10 ug/ ml.



Immunohistochemistry-Paraffin: GPR103 Antibody [NLS1922] - Brain, Accessory Nucleus



## Publications

Gaëtan Prévost, Arnaud Arabo, Marie-Anne Le Sollicec, Justine Bons, Marie Picot, Julie Maucotel, Hind Berrahmoune, Mouna El Mehdi, Saloua Cherifi, Alexandre Benani, Emmanuelle Nédélec, Moïse Coëffier, Jérôme Leprince, Anneli Nordqvist, Valéry Brunel, Pierre Déchelotte, Hervé Lefebvre, Youssef Anouar, Nicolas Chartrel Neuropeptide 26RFa (QRFP) is a key regulator of glucose homeostasis and its activity is markedly altered in obese/hyperglycemic mice. American journal of physiology. Endocrinology and metabolism 2020-02-18 [PMID: 31084498]

Prevost G, Picot M, Le Sollicec MA et al. The neuropeptide 26RFa in the human gut and pancreas: potential involvement in glucose homeostasis Cartilage 2019-06-01 [PMID: 31234144] (IF/IHC, Human)

Prevost G, Jeandel L, Arabo A et al. Hypothalamic Neuropeptide 26RFa Acts as an Incretin to Regulate Glucose Homeostasis. Diabetes 2015-08-01 [PMID: 25858563]

Eckmann CR, Neunteufl A, Pfaffstetter L, Jantsch MF. The human but not the Xenopus RNA-editing enzyme ADAR1 has an atypical nuclear localization signal and displays the characteristics of a shuttling protein. Mol Biol Cell 2001-07-01 [PMID: 11451992]

Alonzeau J, Alexandre D, Jeandel L et al. The neuropeptide 26RFa is expressed in human prostate cancer and stimulates the neuroendocrine differentiation and the migration of androgeno-independent prostate cancer cells Eur J Cancer 2012-08-02 [PMID: 22863147] (IF/IHC, Human)



## Procedures

### Immunohistochemistry protocol for GPR103 Antibody (NLS1922)

Immunohistochemistry Protocol for GPR103 Antibody (NLS1922):

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 NLS1922**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP3-17376PEP	GPR103 Recombinant Protein Antigen

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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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