

# Product Datasheet

## Lgr5/GPR49 Antibody - BSA Free NLS1236

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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### Publications: 3

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**NLS1236**

Lgr5/GPR49 Antibody - BSA Free

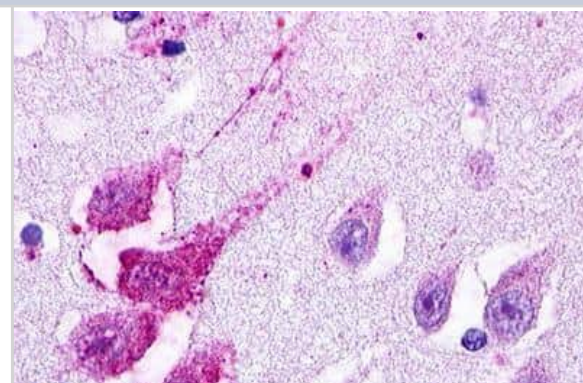
| Product Information |   |
|---------------------|---|
| Unit Size           | 0.05 ml   |
| Concentration       | 1.0 mg/ml   |
| Storage             | Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles. |
| Clonality           | Polyclonal  |
| Preservative        | 0.09% Sodium Azide  |
| Isotype             | IgG   |
| Purity              | Immunogen affinity purified   |
| Buffer              | PBS and 10% Glycerol  |

| Product Description     |  |
|-------------------------|--|
| Description             | Product can be stored undiluted at 4C for up to 1 month.   |
| Host                    | Rabbit   |
| Gene ID                 | 8549   |
| Gene Symbol             | LGR5   |
| Species                 | Human, Mouse, Rat  |
| Reactivity Notes        | Predicted cross-reactivity based on sequence identity: Gibbon (100%), Marmoset (95%), Opossum (85%). Mouse reactivity reported in (PMID: 29966501), Rat reactivity reported in (PMID: 26308208). |
| Specificity/Sensitivity | Human Lgr5/GPR49. BLAST analysis of the peptide immunogen showed no homology with other human proteins.  |
| Immunogen               | A 20 aa synthetic peptide from 1st cytoplasmic domain of human Lgr5/GPR49.   |

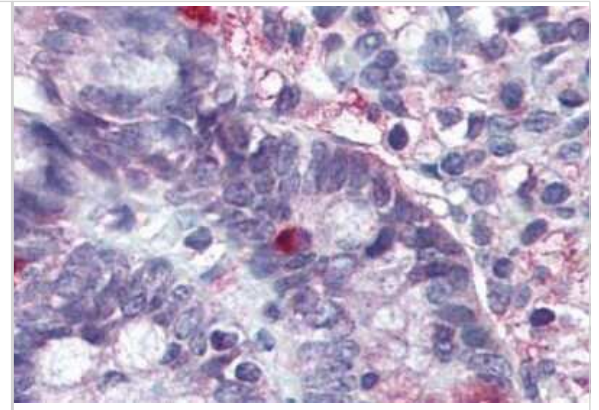
| Product Application Details |  |
|-----------------------------|--|
| Applications                | Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence                              |
| Recommended Dilutions       | Immunohistochemistry 5 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml, Immunofluorescence 1:10 - 1:500 |

**Images**

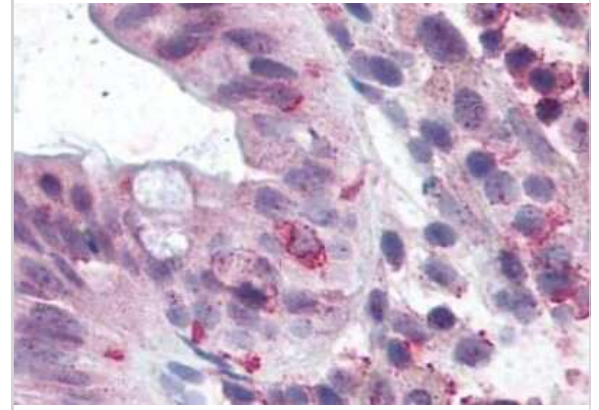
Immunohistochemistry-Paraffin: Lgr5/GPR49 Antibody [NLS1236] - Analysis of Lgr5/GPR49 with Brain, hippocampus



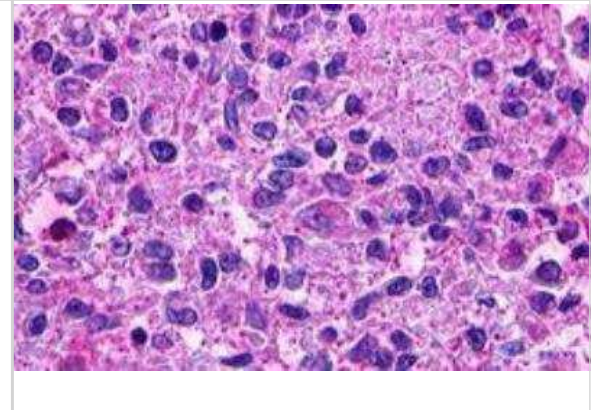
Immunohistochemistry-Paraffin: Lgr5/GPR49 Antibody [NLS1236] -  
Analysis of anti-GPR49 antibody with human, small intestine.



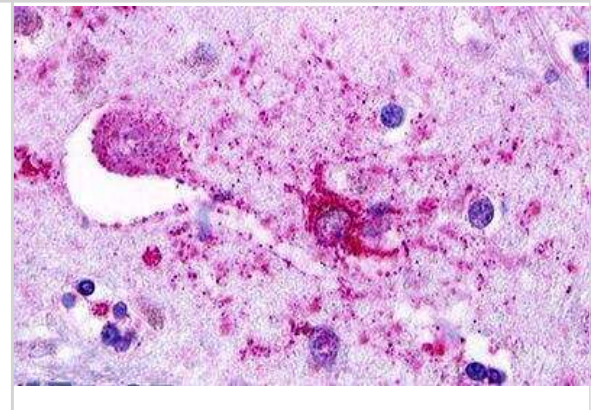
Immunohistochemistry-Paraffin: Lgr5/GPR49 Antibody [NLS1236] -  
Analysis of anti-GPR49 antibody with human colon.



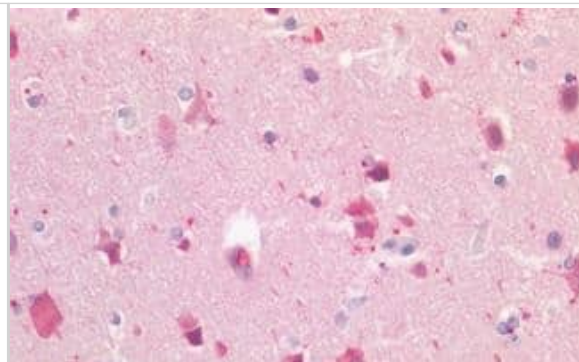
Immunohistochemistry-Paraffin: Lgr5/GPR49 Antibody [NLS1236] -  
Analysis of Lgr5/GPR49 with brain, glioblastoma



Immunohistochemistry-Paraffin: Lgr5/GPR49 Antibody [NLS1236] -  
Analysis of Lgr5/GPR49 with Brain, Caudate



Immunohistochemistry-Paraffin: Lgr5/GPR49 Antibody - BSA Free [NLS1236] - Immunohistochemistry of formalin-fixed, paraffin-embedded Human Brain, Cortex tissue



## Publications

Johnson Chacko L, Sergi C, Eberharter T et al. Early appearance of key transcription factors influence the spatiotemporal development of the human inner ear Cell Tissue Res. 2019-12-02 [PMID: 31788757] (IF/IHC, Human)

Janardhan KS, Jensen H, Clayton NP, Herbert RA Immunohistochemistry in Investigative and Toxicologic Pathology Toxicol Pathol. 2018-07-01 [PMID: 29966501] (IF/IHC, Mouse)

### Details:

Citation used the HRP format of this antibody.

Chen YH, Chen HL, Chien CS et al. Contribution of Mature Hepatocytes to Biliary Regeneration in Rats with Acute and Chronic Biliary Injury. PLoS One 2015-01-01 [PMID: 26308208] (Rat)

## Procedures

### Immunohistochemistry Protocol for GPR49/LGR5 Antibody (NLS1236)

Immunohistochemistry Protocol for GPR49/LGR5 Antibody (NLS1236):

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 at 60 degrees Celcius.
4. Deparaffinize the tissues by wash drying the slides in 3 changes of xylene approximately 5 minutes each @ RT.
5. Rehydrate the tissues by washing the slides in 3 changes of 100% alcohol approximately 3 minutes each @ RT.
6. Wash the slides in 2 changes of 95% alcohol approximately 3 minutes each @ RT.
7. Wash the slides in 1 change of 80% alcohol approximately 3 minutes @ RT.
8. Rinse the slides in gentle running distilled water approximately 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 approximately 20 minutes @ RT.
13. Drain protein block from the slides and apply the diluted primary antibody approximately 45 minutes @ RT.
14. Rinse the slide in 1X TBS-T approximately 1 minute @ RT.
15. Apply a biotinylated anti-rabbit IgG (H+L) secondary approximately 30 minutes @ RT.
16. Rinse the slide in 1X TBS-T approximately 1 minute at RT.
17. Apply an alkaline phosphatase streptavidin approximately 30 minutes at RT.
18. Rinse the slide in 1X TBS-T approximately 1 minute at RT.
19. Apply an alkaline phosphatase chromagen substrate approximately 30 minutes at RT.
20. Rinse the slide in distilled water approximately 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 approximately 1 minute each @ RT.
22. Wash the slides in 2 changes of 95% alcohol approximately 1 minute each @ RT.
23. Wash the slides in 3 changes of 100% alcohol approximately 1 minute each @ RT.
24. Wash the slides in 3 changes of xylene approximately 1 minute each @ RT.
25. Apply cover slip.





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### **Products Related to NLS1236**

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|            |   |
|------------|---|
| NBL1-12509 | Lgr5/GPR49 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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