

# Product Datasheet

## Galanin R1/GALR1 Antibody

### NLS4105

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NLS4105****Galanin R1/GALR1 Antibody****Product Information**

<b>Unit Size</b>	0.05 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid 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

**Product Description**

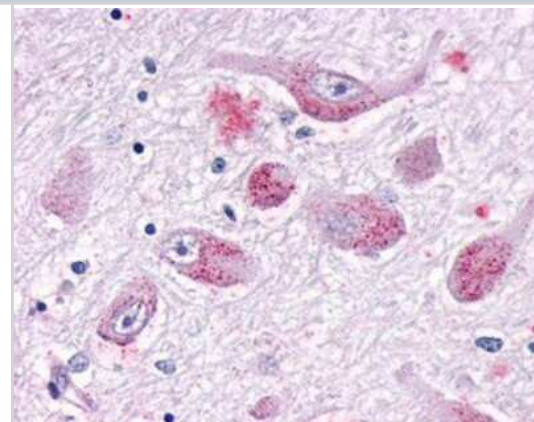
<b>Host</b>	Rabbit
<b>Gene ID</b>	2587
<b>Gene Symbol</b>	GALR1
<b>Species</b>	Human
<b>Reactivity Notes</b>	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (94%), Canine (89%), Panda (83%), Equine (83%).
<b>Specificity/Sensitivity</b>	Human GALR1. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except SSTR5 (50%).
<b>Immunogen</b>	Synthetic 18 amino acid peptide from N-terminal extracellular domain of human GALR1.

**Product Application Details**

<b>Applications</b>	Immunohistochemistry, Immunohistochemistry-Paraffin, Immunocytochemistry
<b>Recommended Dilutions</b>	Immunohistochemistry, Immunohistochemistry-Paraffin 19 ug/ml, Immunocytochemistry 1:10 - 1:500
<b>Application Notes</b>	ICC/IF usage is reported in scientific literature (PMID: 21821102).

**Images**

Immunohistochemistry-Paraffin: GALR1 Antibody [NLS4105] - Formalin-fixed paraffin section of human brain, stained (20 ug/ml)

**Publications**

Barson JR, Chang G-Q, Poon K et al. Galanin and the orexin 2 receptor as possible regulators of enkephalin in the paraventricular nucleus of the hypothalamus: relation to dietary fat. Neuroscience. 2011-07-28 [PMID: 21821102]

## Procedures

### Immunohistochemistry Protocol for GALR1 Antibody (NLS4105)

#### Immunohistochemistry Protocol for GALR1 Antibody (NLS4105):

#### 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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### **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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