

# Product Datasheet

## APJ/Apelin receptor Antibody

### NLS65

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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**NLS65****APJ/Apelin receptor Antibody**

| <b>Product Information</b>         |                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                  |
| <b>Product Description</b>         |                                                                                                                                      |
| <b>Host</b>                        | Rabbit                                                                                                                               |
| <b>Gene ID</b>                     | 187                                                                                                                                  |
| <b>Gene Symbol</b>                 | APLNR                                                                                                                                |
| <b>Species</b>                     | Human, Mouse, Hamster, Primate, Monkey                                                                                               |
| <b>Reactivity Notes</b>            | Gorilla, Orangutan, Gibbon, Marmoset. Predicted cross-reactivity based on sequence identity: Panda (90%), Bat (85%), Elephant (80%). |
| <b>Specificity/Sensitivity</b>     | Human Apelin Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.                         |
| <b>Immunogen</b>                   | Synthetic 20 amino acid peptide from C-terminus of human Apelin Receptor.                                                            |
| <b>Product Application Details</b> |                                                                                                                                      |
| <b>Applications</b>                | Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin                                         |
| <b>Recommended Dilutions</b>       | Immunohistochemistry 8 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 8 ug/ml                         |

## Images

Immunocytochemistry/Immunofluorescence: APJ/Apelin receptor Antibody [NLS65] - Staining of HEK293 human embryonic kidney cells transfected with Apelin Receptor.



Immunohistochemistry-Paraffin: APJ/Apelin receptor Antibody [NLS65] - Analysis of anti-Apelin Receptor antibody with human brain, vessels.



Immunocytochemistry/Immunofluorescence: APJ/Apelin receptor Antibody [NLS65] - Staining of untransfected HEK293 human embryonic kidney cells.



## Procedures

### Immunohistochemistry Protocol for Apelin receptor Antibody (NLS65)

Immunohistochemistry Protocol for Apelin receptor Antibody (NLS65):

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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### **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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