

# Product Datasheet

## Frizzled-10 Antibody NLS4400

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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**NLS4400**

## Frizzled-10 Antibody

| Product Information         |   |
|-----------------------------|---|
| Unit Size                   | 0.05 ml   |
| Concentration               | 1.0 mg/ml   |
| Storage                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.  |
| Clonality                   | Polyclonal  |
| Preservative                | 0.1% Sodium Azide   |
| Isotype                     | IgG   |
| Purity                      | Immunogen affinity purified   |
| Buffer                      | PBS   |
| Product Description         |   |
| Host                        | Rabbit  |
| Gene ID                     | 11211   |
| Gene Symbol                 | FZD10   |
| Species                     | Human, Monkey   |
| Reactivity Notes            | Predicted cross-reactivity based on sequence identity: Gibbon (93%), Hamster (93%), Marmoset (86%), Mouse (86%), Bovine (86%), Equine (86%), Porcine (86%). |
| Specificity/Sensitivity     | Human FZD10 / Frizzled 10. BLAST analysis of the peptide immunogen showed no homology with other human proteins.  |
| Immunogen                   | Synthetic 14 amino acid peptide from N-terminal extracellular domain of human FZD10 / Frizzled 10.  |
| Product Application Details |   |
| Applications                | Immunohistochemistry, Immunohistochemistry-Paraffin   |
| Recommended Dilutions       | Immunohistochemistry, Immunohistochemistry-Paraffin 6-16 ug/ml  |

## Procedures

### Immunohistochemistry Protocol for Frizzled-10 Antibody (NLS4400)

#### 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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