

# Product Datasheet

## Relaxin R2/LGR8 Antibody NLS4751

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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**NLS4751**

## Relaxin R2/LGR8 Antibody

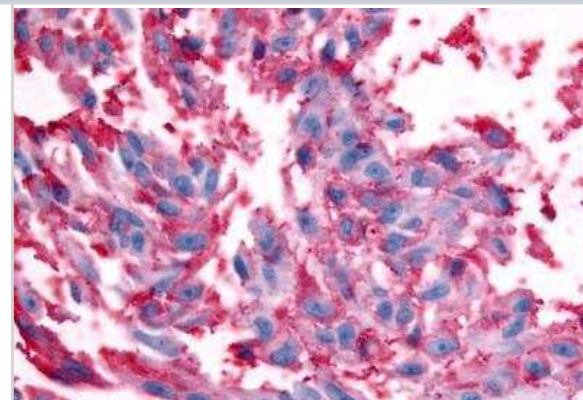
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	122042
Gene Symbol	RXFP2
Species	Human, Mouse
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (94%), Marmoset (94%), Elephant (94%), Panda (94%), Canine (88%), Porcine (88%), Bovine (82%), Rabbit (82%), Platypus (82%), Xenopus (82%).
Specificity/Sensitivity	Human RXFP2. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except RXFP1 (53%).
Immunogen	Synthetic 17 amino acid peptide from 2nd extracellular domain of human RXFP2.

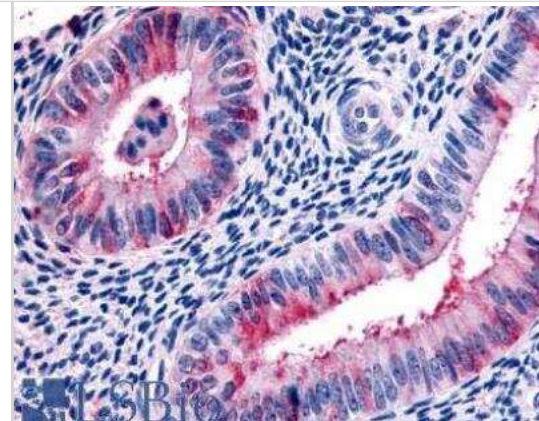
Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 18 - 72 ug/ml

**Images**

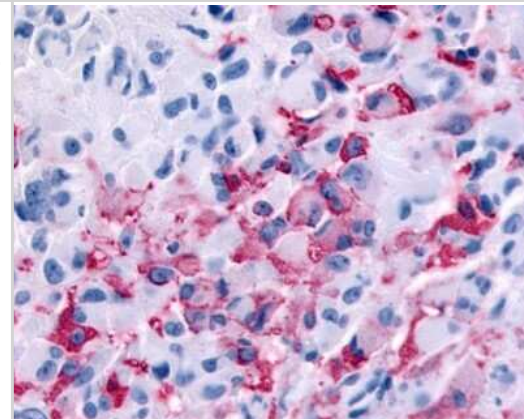
Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4751] - Skin, Malignant Melanoma



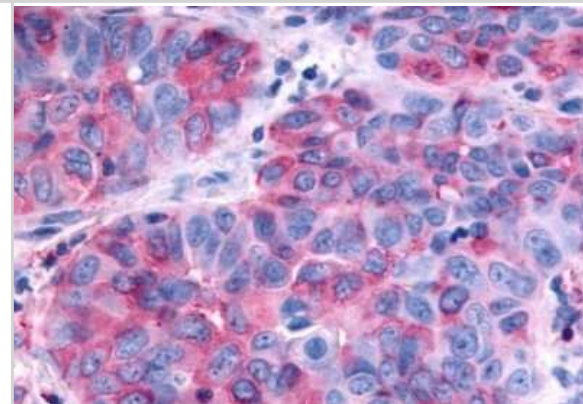
Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4751] - Analysis of anti-RXFP2 / LGR8 antibody with human uterus.



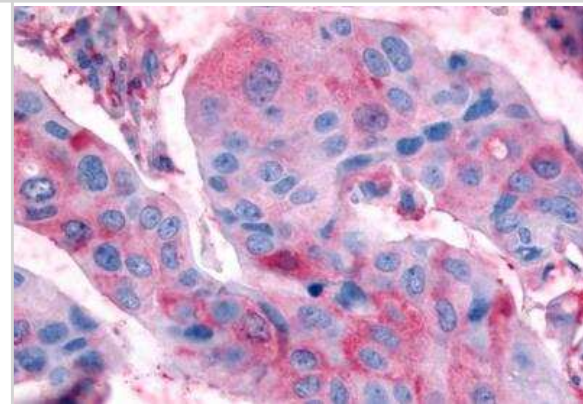
Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4751] - Analysis of anti-RXFP2 / LGR8 antibody with human brain, glioblastoma.



Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4751] - Anti-RXFP2 / LGR8 antibody IHC of human Lung, Non-Small Cell Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4751] - Breast, carcinoma



## Publications

Restucci B, Sgadari M, Fatone G et al. Immunoexpression of Relaxin and Its Receptors in Stifle Joints of Dogs with Cranial Cruciate Ligament Disease Animals 2022-03-23 [PMID: 35405809] (IF/IHC, WB, Canine)

## Procedures

### Immunohistochemistry Protocol for LGR8 Antibody (NLS4751)

Immunohistochemistry Protocol for LGR8 Antibody (NLS4751):

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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