

Product Datasheet

Relaxin R2/LGR8 Antibody - BSA Free NLS4753

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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NLS4753

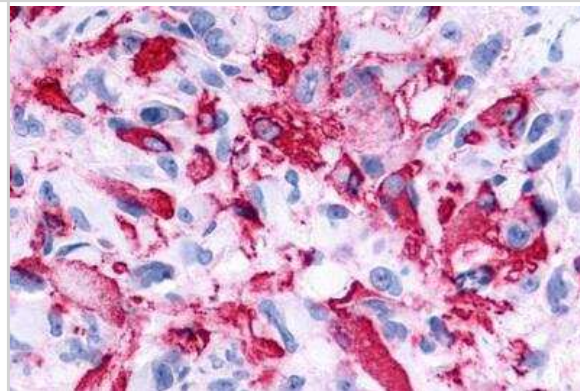
Relaxin R2/LGR8 Antibody - BSA Free

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	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Product Description	
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	122042
Gene Symbol	RXFP2
Species	Human, Mouse, Rat, Drosophila, Equine
Reactivity Notes	Use in Drosophila reported in scientific literature (PMID:33558728). Rat reactivity reported in scientific literature (PMID: 24169563). Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (100%), Canine (86%), Porcine (86%), Xenopus (86%).
Specificity/Sensitivity	Human RXFP2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 14 amino acid peptide from 2nd cytoplasmic domain of human Relaxin R2/LGR8.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000 - 1:10000, Immunohistochemistry 5-10 ug/ml, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 5 - 10 ug/ml
Application Notes	WB: Mouse tissue has been controversial. ICC/IF usage is reported in scientific literature (PMID: 24169563).

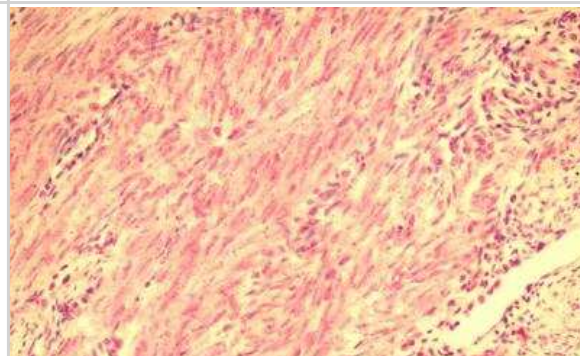


Images

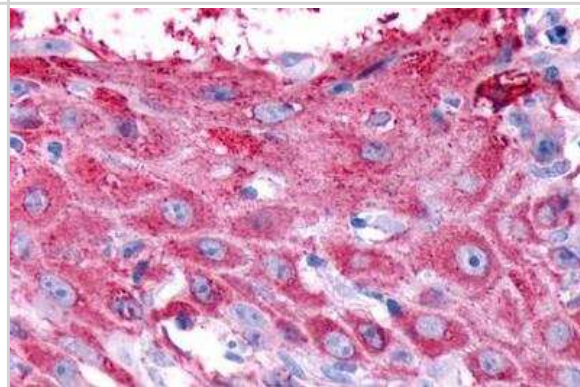
Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4753] - Brain, Glioblastoma



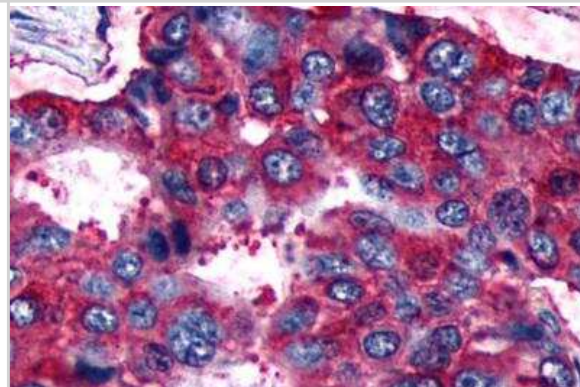
Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4753] - Human Uterus



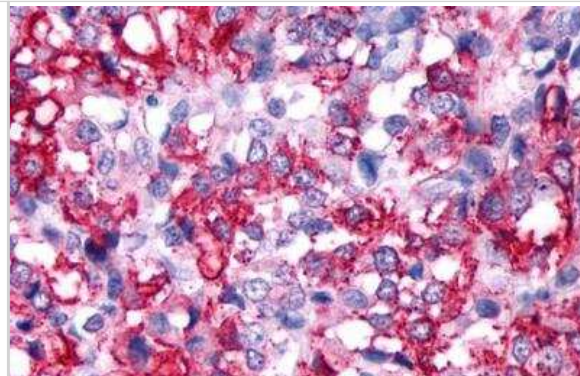
Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4753] - Skin, Malignant Melanoma



Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4753] - Lung, Non Small-Cell Carcinoma



Immunohistochemistry-Paraffin: Relaxin R2/LGR8 Antibody [NLS4753] - Breast, carcinoma



Publications

Yeom E, Shin H, Yoo W et al. Tumour-derived Dilp8/INSL3 induces cancer anorexia by regulating feeding neuropeptides via Lgr3/8 in the brain *Nature cell biology* 2021-02-01 [PMID: 33558728] (WB, Drosophila)

Kamimoto H, Kobayashi Y, Moriyama K. Relaxin 2 carried by magnetically directed liposomes accelerates rat midpalatal suture expansion and subsequent new bone formation *Bone Rep* 2019-06-01 [PMID: 30937342] (IF/IHC, Rat)

Xue K, Kim JY, Liu JY et al. Insulin-like 3-Induced Rat Preantral Follicular Growth Is Mediated by Growth Differentiation Factor 9. *Endocrinology* 2014-01-01 [PMID: 24169563] (IHC-P, ICC/IF, Rat)

Procedures

Immunohistochemistry Protocol for LGR8 Antibody (NLS4753)

Immunohistochemistry Protocol for LGR8 Antibody (NLS4753):

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 NLS4753

NBL1-15638	Relaxin R2/LGR8 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

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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