Product Datasheet

Muscarinic Acetylcholine Receptor M4/CHRM4 Antibody BSA Free NLS220

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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NLS220

Application Notes

Muscarinic Acetylcholine Receptor M4/CHRM4 Antibody - BSA Free

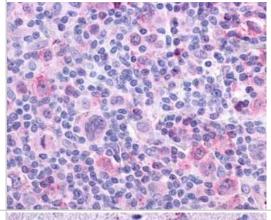
Muscarinic Acetylcholine Receptor M4/CHRM4 Antibody - BSA Free	
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
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	1132
Gene Symbol	CHRM4
Species	Human, Rat, Porcine, Bovine, Equine, Guinea Pig, Hamster
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%).
Specificity/Sensitivity	Human CHRM4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 20 amino acid peptide from 3rd cytoplasmic domain of human Muscarinic Acetylcholine Receptor M4/CHRM4.
Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 10 - 20 ug/ml
1	

Use in ICC/IF reported in scientific literature (PMID: 23212463).

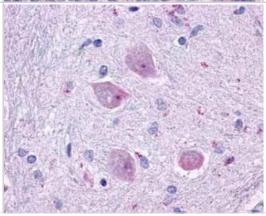


Images

Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M4/CHRM4 Antibody [NLS220] - Analysis of anti-CHRM4 / M4 antibody with human lymph node, Hodgkins lymphoma.



Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M4/CHRM4 Antibody [NLS220] - Analysis of anti-CHRM4 / M4 antibody with human brain, neurons and glia.



Publications

Fong G, Backman LJ, Andersson G et al. Human tenocytes are stimulated to proliferate by acetylcholine through an EGFR signalling pathway Cell Tissue Res 2012-12-05 [PMID: 23212463] (ICC/IF, Human)



Procedures

Immunohistochemistry Protocol for Muscarinic Acetylcholine Receptor M4 Antibody (NLS220)

Immunohistochemistry Protocol for Muscarinic Acetylcholine Receptor M4 Antibody (NLS220): 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 steptavidin 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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Products Related to NLS220

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

NB7160 Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]

NBP2-24891 Rabbit IgG Isotype Control

H00001132-G01 Recombinant Human Muscarinic Acetylcholine Receptor M4/CHRM4

Protein

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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