

Product Datasheet

Muscarinic Acetylcholine Receptor M3/CHRM3 Antibody **NLS5259**

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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NLS5259

Muscarinic Acetylcholine Receptor M3/CHRM3 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

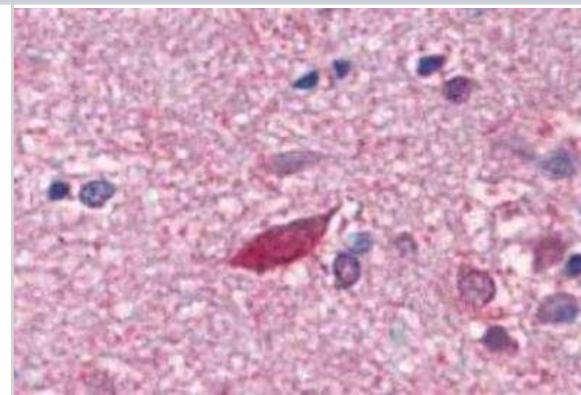
Host	Rabbit
Gene ID	1131
Gene Symbol	CHRM3
Species	Human
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Opossum (89%), Turkey (89%), Chicken (89%).
Specificity/Sensitivity	Human Muscarinic Acetylcholine Receptor M3/CHRM3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 19 amino acid peptide from C-terminus of human Muscarinic Acetylcholine Receptor M3/CHRM3.

Product Application Details

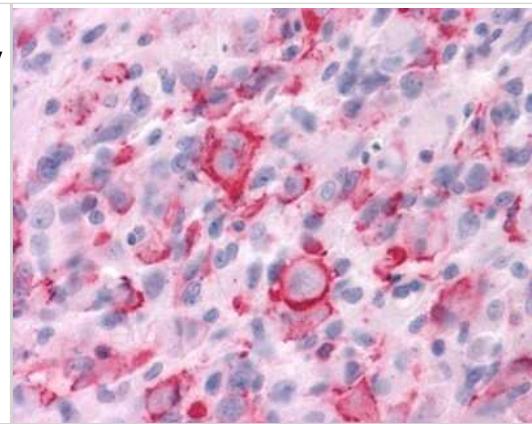
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 72 ug/ml
Application Notes	Use in ICC/IF reported in scientific literature (PMID: 23212463).

Images

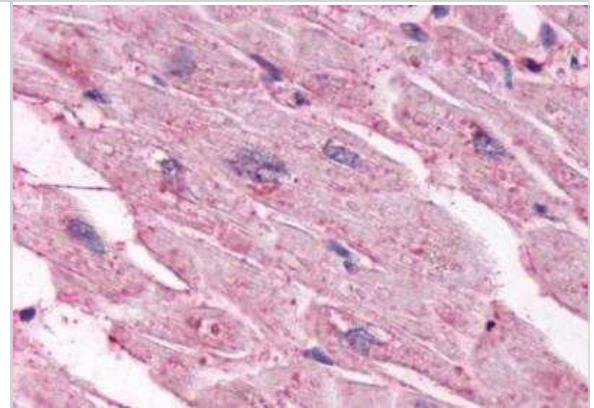
Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M3/CHRM3 Antibody [NLS5259] - Brain, Alzheimer's disease neurofibrillary tangle



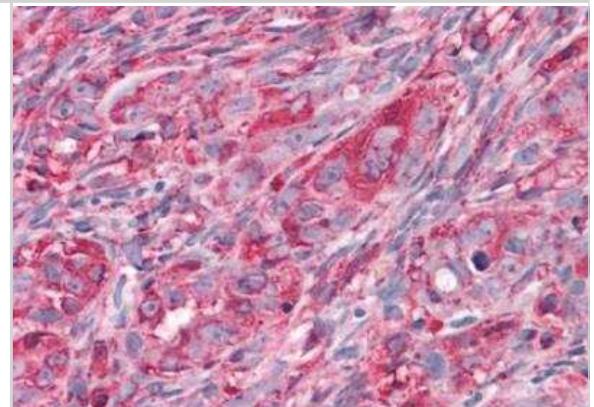
Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M3/CHRM3 Antibody [NLS5259] - Analysis of anti-CHRM3 / M3 antibody with human brain, glioblastoma.



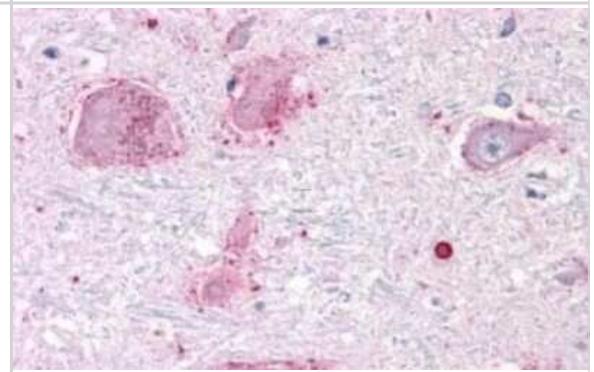
Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M3/CHRM3 Antibody [NLS5259] - Human heart formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



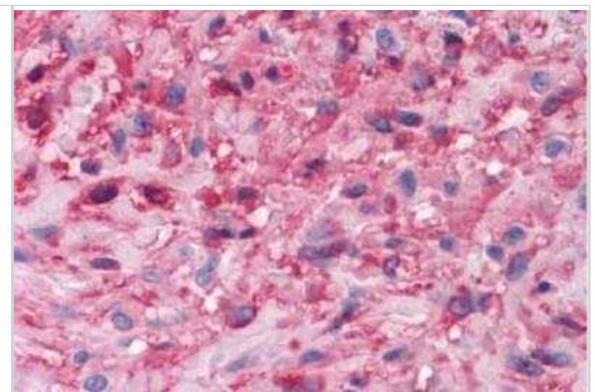
Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M3/CHRM3 Antibody [NLS5259] - Human Ovary, Carcinoma formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M3/CHRM3 Antibody [NLS5259] - Anti-CHRM3 / M3 antibody IHC of human brain, neurons and glia. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M3/CHRM3 Antibody [NLS5259] - Brain, glioblastoma



Publications

Stoffel MH, Monnard CW, Steiner A et al. Distribution of muscarinic receptor subtypes and interstitial cells of Cajal in the gastrointestinal tract of healthy dairy cows. Am J Vet Res 2006-12-01 [PMID: 17144799]

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 M3 Antibody (NLS5259)

Immunohistochemistry Protocol for Muscarinic Acetylcholine Receptor M3 Antibody (NLS5259):

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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