Product Datasheet

mGluR4 Antibody
NLS909

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NLS909

Updated 4/5/2018 v.20.1
# Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.05 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.1% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>PBS</td>
</tr>
</tbody>
</table>

## Product Description

**Host**
- Rabbit

**Gene ID**
- 2914

**Gene Symbol**
- GRM4

**Species**
- Human, Mouse, Rat, Porcine, Bovine, Canine, Equine, Monkey, Primate, Rabbit

**Reactivity Notes**
- Chimpanzee, Gorilla. Predicted cross-reactivity based on sequence identity: Elephant (100%), Panda (100%), Opossum (84%).

**Specificity/Sensitivity**
- Human GRM4 / MGLUR4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Immunogen**
- Synthetic 19 amino acid peptide from N-terminal extracellular domain of human GRM4 / MGLUR4.

## Product Application Details

**Applications**
- Immunohistochemistry-Paraffin

**Recommended Dilutions**
- Immunohistochemistry-Paraffin 10 ug/ml
Images


Immunohistochemistry-Paraffin: mGluR4 Antibody [NLS909] - Analysis of anti-GRM4 / MGLUR4 antibody with human brain, neurons and glia.

## Immunohistochemistry Protocol for metabotropic Glutamate Receptor 4 Antibody (NLS909)

**Immunohistochemistry**

**Do not allow the tissues to dry at any time during the staining procedure**

**This method should only be used if the chromagen substrate is alcohol insoluble (ie: Vector Red, DAB)**

1. Prepare tissue with formalin fixation and by embedding it in paraffin wax.
2. Make 4-mm 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 5 minutes each @ RT.
5. Rehydrate the tissues by washing the slides in 3 changes of 100% alcohol 3 minutes each @ RT.
6. Wash the slides in 2 changes of 95% alcohol 3 minutes each @ RT.
7. Wash the slides in 1 change of 80% alcohol 3 minutes @ RT.
8. Rinse the slides in gentle running distilled water 5 minutes @ RT.
9. Perform antigen retrieval by steaming the slides in 0.01M sodium citrate buffer (pH 6.0) @ 99-100 degrees Celcius.
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.
12. Begin the immunostaining by applying a universal protein block 20 minutes @ RT.
13. Drain protein block from the slides and apply the diluted primary antibody 45 minutes @ RT.
14. Rinse the slide in 1X TBS-T 1 minute @ RT.
15. Apply a biotinylated anti-rabbit IgG (H+L) secondary 30 minutes @ RT.
16. Rinse the slide in 1X TBS-T 1 minute @ RT.
17. Apply an alkaline phosphatase steptavidin 30 minutes @ RT.
18. Rinse the slide in 1X TBS-T 1 minute @ RT.
19. Apply an alkaline phosphatase chromagen substrate 30 minutes @ RT.
20. Rinse the slide in distilled water 1 minute @ RT.
21. Dehydrate the tissue by washing the slides in 2 changes of 80% alcohol 1 minute each @ RT.
22. Wash the slides in 2 changes of 95% alcohol 1 minute each @ RT.
23. Wash the slides in 3 changes of 100% alcohol 1 minute each @ RT.
24. Wash the slides in 3 changes of xylene 1 minute each @ RT.
25. Apply cover slip.
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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