Product Datasheet

mGluR7 Antibody

NLS917

Unit Size: 0.05 ml

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

Publications: 2

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# NLS917
mGluR7 Antibody

## Product Information

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

## Product Description

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Gene ID</td>
<td>2917</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>GRM7</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat, Bovine, Canine, Equine, Monkey, Primate</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Chimpanzee, Gorilla, Orangutan, Gibbon, Marmoset. Predicted cross-reactivity based on sequence identity: Panda (100%), Opossum (80%), Turkey (80%), Chicken (80%). Rat reactivity reported in scientific literature (PMID: 24858010).</td>
</tr>
</tbody>
</table>

## Specificity/Sensitivity

Human GRM7 / MGLUR7. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except GRM4 (60%), GRM6 (45%).

## Product Application Details

### Applications

Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin

### Recommended Dilutions

Western Blot 1:1000 - 1:10000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 7 ug/ml

### Application Notes

Use in ICC/IF reported in scientific literature (PMID: 24858010).
Images

Immunohistochemistry-Paraffin: mGluR7 Antibody [NLS917] - Analysis of anti-GRM7 / MGLUR7 antibody with human adrenal at dilution 7 ug/ml.

Immunohistochemistry-Paraffin: mGluR7 Antibody [NLS917] - Analysis of anti-GRM7 / MGLUR7 antibody with human liver at dilution 7 ug/ml.

Publications


Details:
Rat cochlear tissue, Fig S6. Cochlear tissue was fixed in 4% paraformaldehyde for 1 h at 4 degrees C and permeabilized with 0.5% Triton X-100 prior to incubation with the Metabotropic Glutamate Receptor pAb.


Details:
IHC (paraffin), mouse ear tissue, Fig. 3A,B,C,F; IHC (paraffin), human temporal bone tissue, Fig. 4.
Procedures

Immunohistochemistry Protocol for metabotropic glutamate receptor 7 Antibody (NLS917)

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 steptavidin 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.
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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