

# Product Datasheet

## mGluR3 Antibody - BSA Free

### NLS3218

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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**NLS3218**

mGluR3 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                                                                                                   |

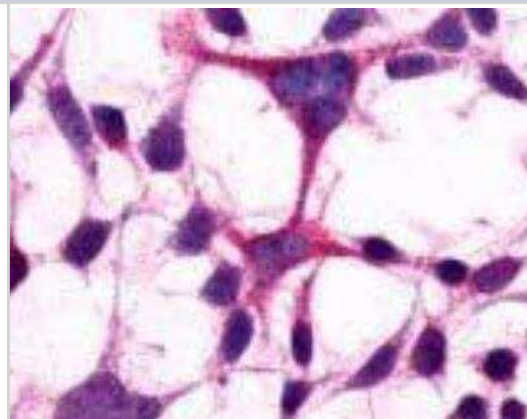
| Product Description     |                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description             | Product can be stored undiluted at 4C for up to 1 month.                                                                                                                  |
| Host                    | Rabbit                                                                                                                                                                    |
| Gene ID                 | 2913                                                                                                                                                                      |
| Gene Symbol             | GRM3                                                                                                                                                                      |
| Species                 | Human, Primate, Monkey                                                                                                                                                    |
| Reactivity Notes        | Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (100%), Mouse (88%), Equine (88%), Rabbit (88%), Opossum (88%), Bat (82%). |
| Specificity/Sensitivity | Human mGluR3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.                                                                       |
| Immunogen               | Synthetic 17 amino acid peptide from N-terminal extracellular domain of human mGluR3.                                                                                     |

| Product Application Details |                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Applications                | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin                      |
| Recommended Dilutions       | Western Blot 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 9 ug/ml |

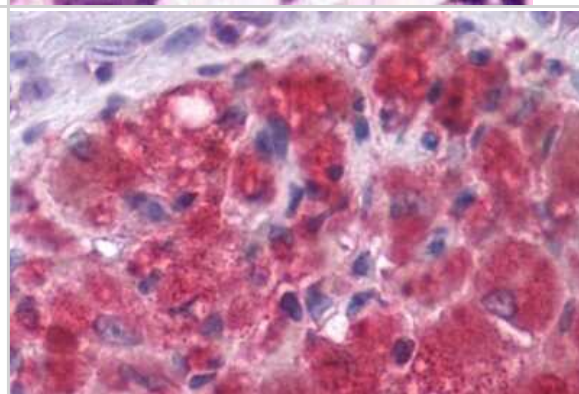


## Images

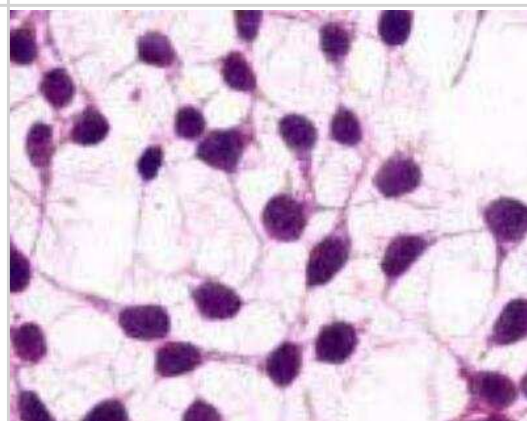
Immunocytochemistry/Immunofluorescence: mGluR3 Antibody [NLS3218] - Analysis of anti-GRM3 / MGLUR3 antibody with transfected HEK293 human embryonic kidney cells.



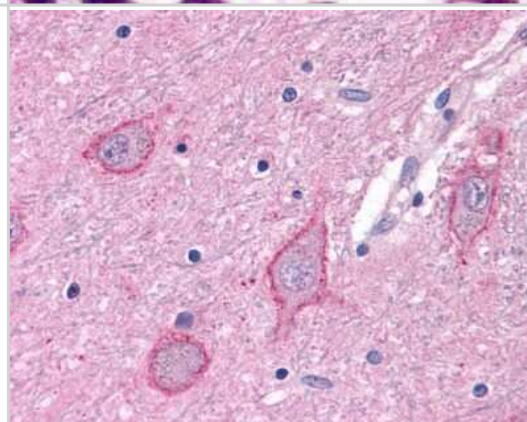
Immunohistochemistry-Paraffin: mGluR3 Antibody [NLS3218] - Anti-GRM3 / MGLUR3 antibody IHC of human Skin, Melanoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunocytochemistry/Immunofluorescence: mGluR3 Antibody [NLS3218] - Analysis of anti-GRM3 / MGLUR3 antibody with untransfected HEK293 human embryonic kidney cells.



Immunohistochemistry-Paraffin: mGluR3 Antibody [NLS3218] - Analysis of anti-GRM3 / MGLUR3 antibody with human brain, neurons and glia at 9 ug/ml



## Procedures

### Immunohistochemistry Protocol for metabotropic Glutamate Receptor 3 Antibody (NLS3218)

Immunohistochemistry Protocol for metabotropic Glutamate Receptor 3 Antibody (NLS3218):

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 streptavidin 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 NLS3218**

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|             |                                                     |
|-------------|-----------------------------------------------------|
| HAF008      | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160      | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891  | Rabbit IgG Isotype Control                          |
| 9527-UR-100 | mGluR3 [Unconjugated]                               |

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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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