

Product Datasheet

GPR1 Antibody - BSA Free NLS74

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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NLS74

GPR1 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	2825
Gene Symbol	GPR1
Species	Human
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (95%), Hamster (84%), Canine (84%).
Specificity/Sensitivity	Human GPR1. 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 GPR1.

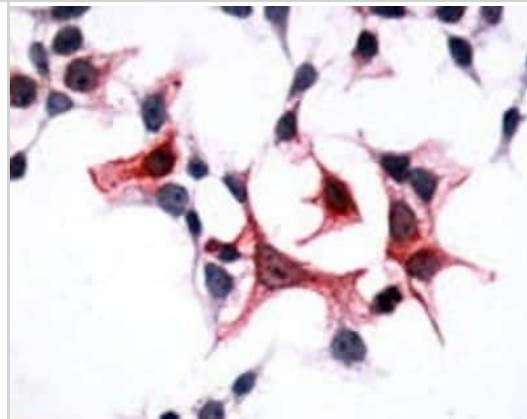
Product Application Details

Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 32 ug/ml
Application Notes	Use in Western blot reported in scientific literature (PMID: 25451689).

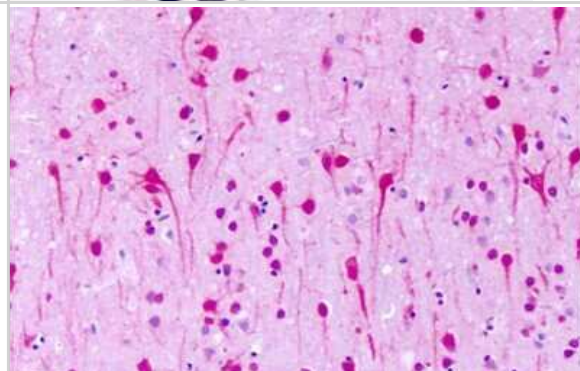


Images

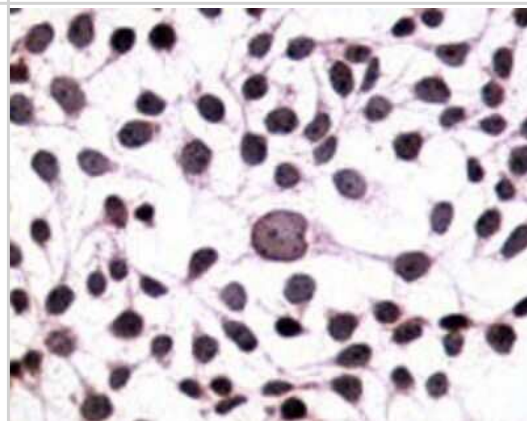
Immunocytochemistry: GPR1 Antibody [NLS74] - Analysis of anti-GPR1 antibody with transfected cells expressing GPR1 at 32 ug/ml.



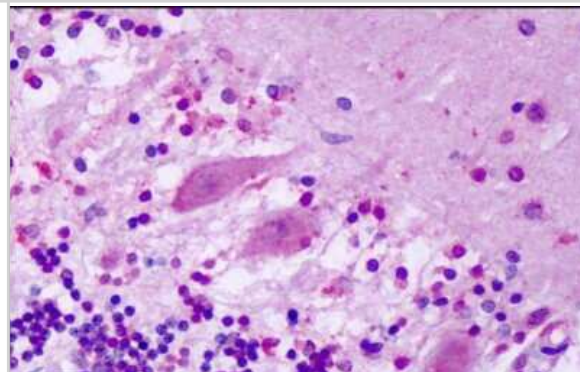
Immunohistochemistry-Paraffin: GPR1 Antibody [NLS74] - Analysis of anti-GPR1 antibody with human brain, neurons at 32 ug/ml.



Immunocytochemistry: GPR1 Antibody [NLS74] - Analysis of anti-GPR1 antibody with transfection control at 32 ug/ml.



Immunohistochemistry-Paraffin: GPR1 Antibody [NLS74] - Analysis of anti-GPR1 antibody with human brain, cerebellum, Purkinje neurons at dilution 32 ug/ml.



Publications

Wegner MS, Wanger RA, Oertel S. Ceramide synthases CerS4 and CerS5 are upregulated by 17 β -estradiol and GPER1 via AP-1 in human breast cancer cells. *Biochem Pharmacol.* 2014-10-22 [PMID: 25451689] (WB, Human)

Details:

GPR1 antibody used in WB application for the detection of endogenous GPR1 as well as over-expressed HA-tagged GPR1 in experiments involving human breast cancer cells MCF-7 and MDA-MB-231 cells



Procedures

Immunohistochemistry protocol for GPR1 Antibody (NLS74)

Immunohistochemistry Protocol for GPR1 Antibody (NLS74):

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 NLS74

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-04283	GPR1 Overexpression Lysate

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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