

Product Datasheet

Opsin 3 Antibody - BSA Free NLS2134

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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technical@novusbio.com

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NLS2134

Opsin 3 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

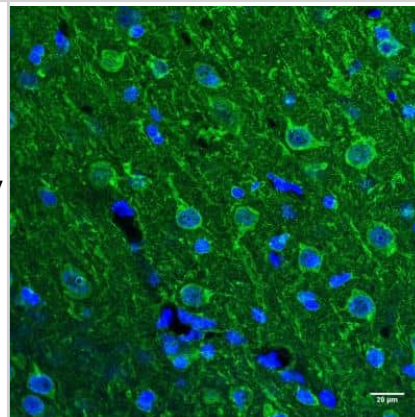
Product Description	
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	23596
Gene Symbol	OPN3
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 21700660). Predicted cross-reactivity based on sequence identity: Gibbon (94%), Marmoset (94%). Rat reactivity reported from a verified customer review.
Specificity/Sensitivity	Human Opsin 3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 16 amino acid peptide from C-terminus of human Opsin 3.

Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 5 - 8 ug/mL, Immunohistochemistry Free-Floating
Application Notes	Use in Immunohistochemistry reported in scientific literature (PMID: 21700660). This Opsin 3 Antibody is validated for IHC-FrFI from a verified customer review.



Images

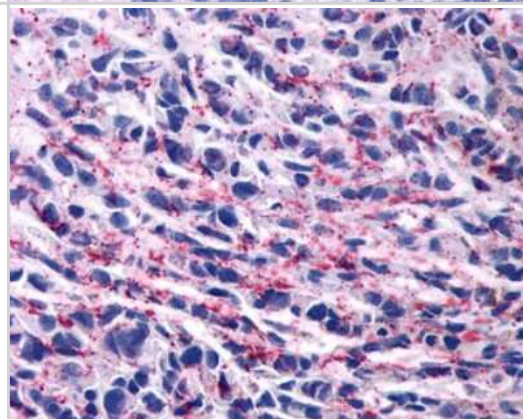
Immunohistochemistry Free-Floating: Opsin 3 Antibody [NLS2134] - Rat brain samples (cerebral cortex). Rat brain 40um free floating sections were incubated with Opsin 3 Antibody (NLS2134) at 1:250 overnight at 4 degrees C. The following day, sections were incubated with anti-rabbit Alexa Fluor Plus 488 1:500 and DAPI. Opsin 3 Antibody (NLS2134; 1:250) in green. Nuclei stained with DAPI (blue). IHC image submitted by a verified customer review.



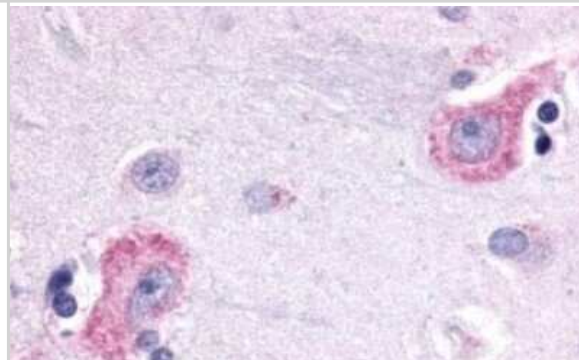
Immunohistochemistry-Paraffin: Opsin 3 Antibody [NLS2134] - Analysis of anti-Encephalopsin / OPN3 antibody with brain, neurons and glia at 5 ug/mL.



Immunohistochemistry-Paraffin: Opsin 3 Antibody [NLS2134] - Analysis of anti-Encephalopsin / OPN3 antibody with human skin, melanoma.



Immunohistochemistry-Paraffin: Opsin 3 Antibody [NLS2134] - Anti-OPN3 / Encephalopsin antibody IHC of human brain, neurons and glia. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Publications

Kim HJ, Gieske MC, Trudgen K et al. Identification of Estradiol/ER{alpha}-regulated genes in the mouse pituitary. J Endocrinol. 2011-06-24 [PMID: 21700660] (IF/IHC, Mouse)

Procedures

Immunohistochemistry protocol for Opsin 3 Antibody (NLS2134)

Immunohistochemistry Protocol for Opsin 3 Antibody (NLS2134):

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.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NLS2134

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
664-LI-025	LIGHT/TNFSF14 [Unconjugated]

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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