

Product Datasheet

Melatonin Receptor 1B Antibody NLS932

Unit Size: 0.05 ml

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NLS932

Updated 10/23/2016 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NLS932



NLS932**Melatonin Receptor 1B Antibody**

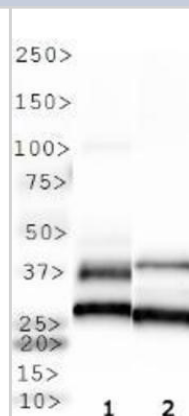
Product Information	
Unit Size	0.05 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol

Product Description	
Host	Rabbit
Gene ID	4544
Gene Symbol	MTNR1B
Species	Human, Mouse, Rat
Reactivity Notes	Human, mouse and rat
Immunogen	A synthetic peptide made to an internal region of the human Melatonin Receptor 1B protein (within residues 200-300) [Swiss-Prot P49286].

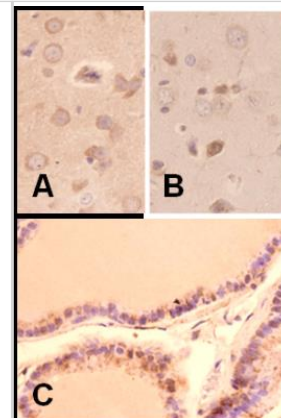
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100, Immunohistochemistry-Frozen
Application Notes	This Melatonin Receptor 1B antibody is useful for Immunohistochemistry with formalin fixed paraffin embedded tissues and Western blot. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended. Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 24365461)

Images

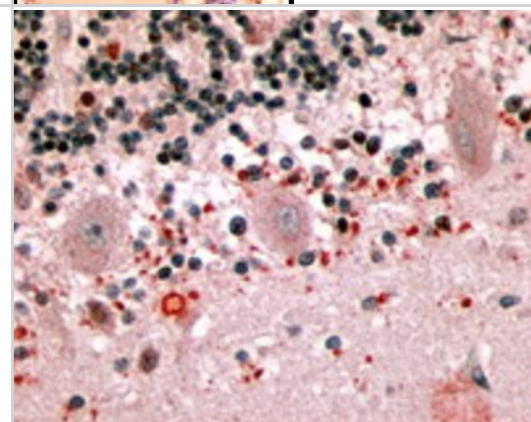
Western Blot: Melatonin Receptor 1B Antibody [NLS932] - Analysis of 1. HepG2 and 2. A431.



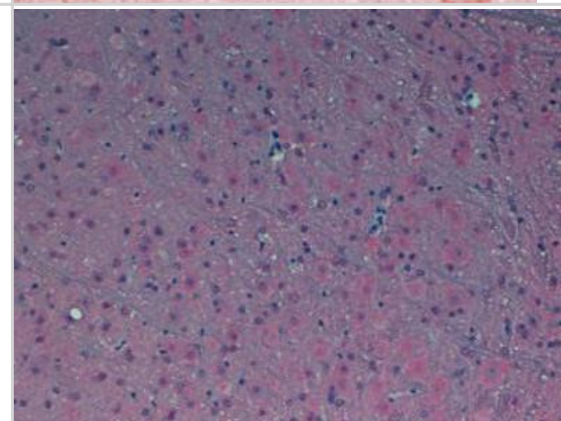
Immunohistochemistry-Paraffin: Melatonin Receptor 1B Antibody [NLS932] - Melatonin receptor type 1 B (MTR1B) in rat tissues fixed in paraformaldehyde and embedded in paraffin. A,B-brain, C-prostate. Image from verified customer review.



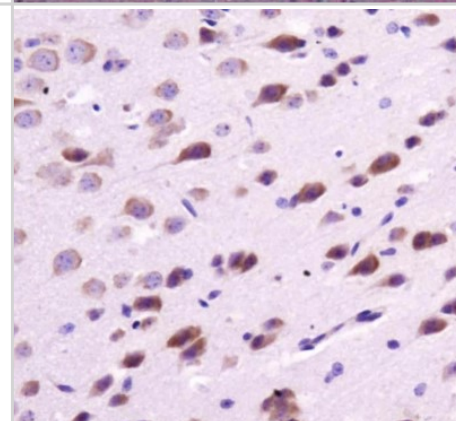
Immunohistochemistry-Paraffin: Melatonin Receptor 1B Antibody [NLS932] - Analysis of Human Brain. 8 ug/ ml.



Immunohistochemistry: Melatonin Receptor 1B Antibody [NLS932] - Analysis of Human Brain using Fast Red with hematoxylin counterstain.



Immunohistochemistry: Melatonin Receptor 1B Antibody [NLS932] - Staining of Mouse Brain.



Publications

Gobbo MG, Dizeyi N, Abrahamsson PA et al. Influence of Melatonin on the Proliferative and Apoptotic Responses of the Prostate under Normal and Hyperglycemic Conditions. J Diabetes Res. 2015 Aug 21 [PMID: 26295055] (IHC-P, Rat)

Details:

Melatonin Receptor 1B antibody was used for IHC-P analysis of ventral prostate tissues from normal or hyperglycemic rats that were subjected to Melatonin treatments. The primary antibody was used at 1?:?75 dilution with overnight 4C incubation and detection involved HRP-diaminobenzidine/DAB based detection (Figure 5).

Corthell JT, Olcese J, Trombley PQ. Melatonin in the mammalian olfactory bulb. Neuroscience 2013 Dec 21 [PMID: 24365461] (WB, IHC-Fr, Mouse)



Procedures**Protocol specific for Melatonin Receptor 1B Antibody (NLS932)****Western Blot Protocol**

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
 2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
 3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
 4. Rinse the blot.
 5. Block the membrane using standard blocking buffer for at least 1 hour.
 6. Wash the membrane in wash buffer three times for 10 minutes each.
 7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
 8. Wash the membrane in wash buffer three times for 10 minutes each.
 9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
 10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
 11. Apply the detection reagent of choice in accordance with the manufacturers instructions.
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05 -0.2%.

Immunohistochemistry-Paraffin Embedded Sections**Antigen Unmasking:**

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





Novus Biologicals USA

8100 Southpark Way, A-8
Littleton, CO 80120
USA

Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
novus@novusbio.com

Novus Biologicals Canada

461 North Service Road West, Unit B37
Oakville, ON L6M 2V5
Canada

Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada@novusbio.com

Novus Biologicals Europe

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@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

Products Related to NLS932

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NLS932AF488	Melatonin Receptor 1B Antibody [Alexa Fluor 488]
NLS932PEP	Melatonin Receptor 1B Peptide

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

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NLS932

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

