

Product Datasheet

Dopamine D1R/DRD1 Antibody - BSA Free NLS43

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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NLS43**Dopamine D1R/DRD1 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	1812
Gene Symbol	DRD1
Species	Human, Mouse, Porcine, Bovine, Canine, Primate, Monkey
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (100%), Rat (87%), Turkey (87%), Chicken (87%), Xenopus (80%). Use in Mouse reported in scientific literature (PMID:32783894).
Specificity/Sensitivity	Human DRD1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 15 amino acid peptide from 3rd cytoplasmic domain of human Dopamine D1R/DRD1.

Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 8 ug/ml

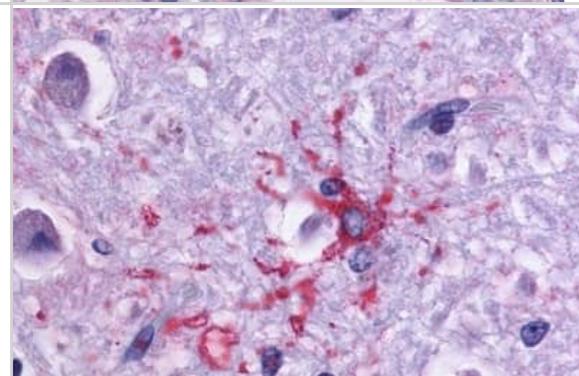


Images

Immunohistochemistry-Paraffin: Dopamine D1 R/DRD1 Antibody [NLS43] - Analysis of anti-Dopamine Receptor D1 / DRD1 antibody with human kidney, tubules at dilution 8 ug/ml.



Immunohistochemistry: Dopamine D1R/DRD1 Antibody - BSA Free [NLS43] - Immunohistochemistry of Brain, Alzheimer's protoplasmic astrocyte



Publications

Baek EJ, Kim H, Basova LA et al. Sex differences and Tat expression affect dopaminergic receptor expression and response to antioxidant treatment in methamphetamine-sensitized HIV Tat transgenic mice *Neuropharmacology* 2020 -08-09 [PMID: 32783894] (IHC-P, IF/IHC, Mouse)

Kesby JP, Najera JA, Romoli B et al. HIV-1 TAT protein enhances sensitization to methamphetamine by affecting dopaminergic function. *Brain Behav. Immun.* 2017-05-08 [PMID: 28495611]

Procedures

Immunohistochemistry Protocol for Dopamine Receptor D1 Antibody (NLS43)

Immunohistochemistry Protocol for Dopamine Receptor D1 Antibody (NLS43):

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.





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Products Related to NLS43

NBL1-10015	Dopamine D1R/DRD1 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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