

Product Datasheet

beta-3 Adrenergic R/ADRB3 Antibody - BSA Free NLS4198

Unit Size: 0.05 mg

Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.

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NLS4198

beta-3 Adrenergic R/ADRB3 Antibody - BSA Free

Product Information

Unit Size	0.05 mg
Concentration	1 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

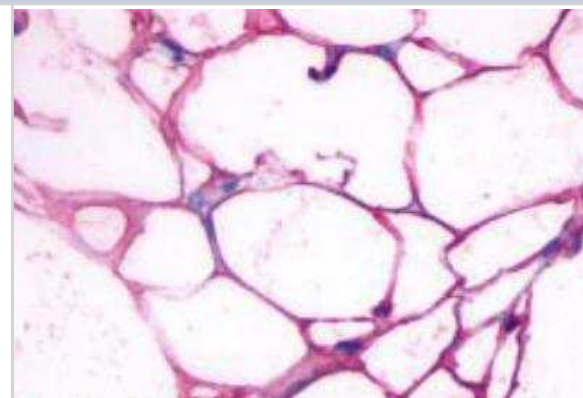
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	155
Gene Symbol	ADRB3
Species	Human, Rat
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (95%), Rabbit (85%), Sheep (80%), Goat (80%), Hamster (80%), Feline (80%), Bovine (80%), Equine (80%).
Specificity/Sensitivity	Human ADRB3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 20 amino acid peptide from N-terminal extracellular domain of human beta-3 Adrenergic R/ADRB3.

Product Application Details

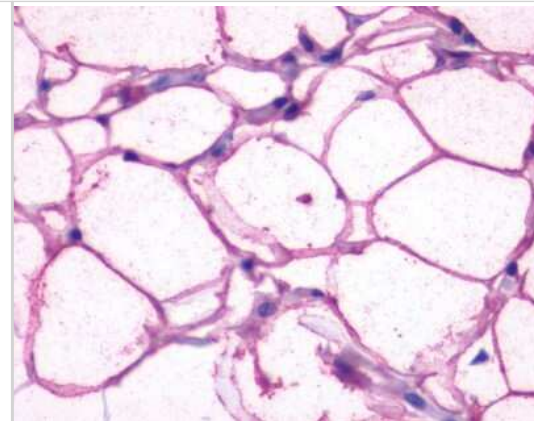
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 10 - 15 ug/ml
Application Notes	Use in IHC reported in scientific literature (PMID: 29635716).

Images

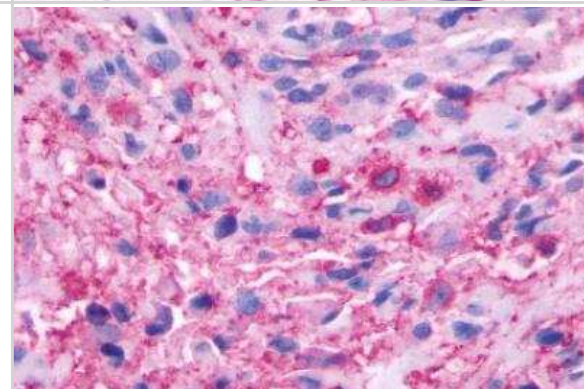
Immunohistochemistry-Paraffin: beta-3 Adrenergic R/ADRB3 Antibody [NLS4198] - Analysis of beta-3 Adrenergic R/ADRB3 Antibody with Adipose tissue.



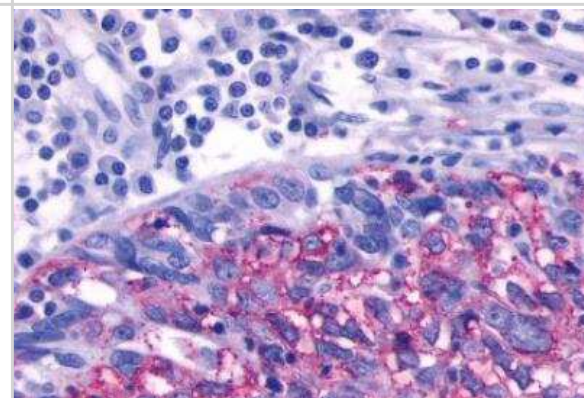
Immunohistochemistry-Paraffin: beta-3 Adrenergic R/ADRB3 Antibody [NLS4198] - Analysis of anti-ADRB3 antibody with human adipose.



Immunohistochemistry-Paraffin: beta-3 Adrenergic R/ADRB3 Antibody [NLS4198] - Human Brain, Glioblastoma tissue after heat-induced antigen retrieval.



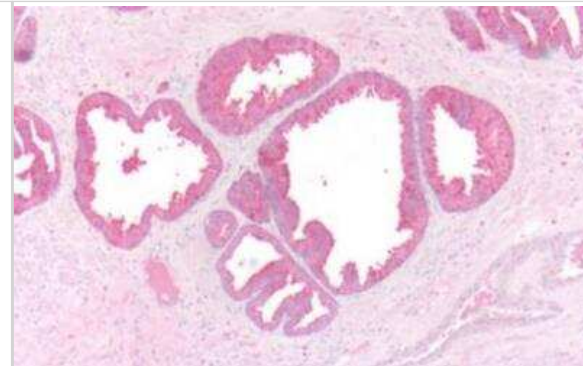
Immunohistochemistry-Paraffin: beta-3 Adrenergic R/ADRB3 Antibody [NLS4198] - Human Ovary, Carcinoma tissue after heat-induced antigen retrieval.



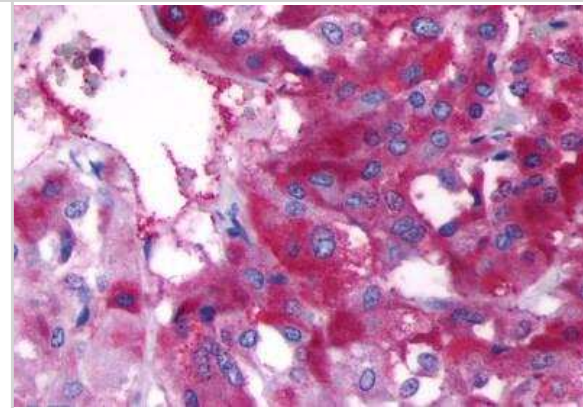
Immunohistochemistry-Paraffin: beta-3 Adrenergic R/ADRB3 Antibody [NLS4198] - Human small intestine tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: beta-3 Adrenergic R/ADRB3 Antibody [NLS4198] - Human prostate tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: beta-3 Adrenergic R/ADRB3 Antibody [NLS4198] - Analysis of beta-3 Adrenergic R/ADRB3 Antibody with adrenal tissue.



Publications

Chang, Y;Dagat, LA;Yusuf, A;Zahriya, Y;Staputyte, K;Worley, E;Holt, A;Canuteson, N;Messieha, V;Halila, K; Regulation of bFGF-induced effects on rat aortic smooth muscle cells by beta 3-adrenergic receptors Current research in pharmacology and drug discovery [PMID: 35300074] (Rat)

Marino F, Scanzano A, Pulze L et al. b2 -Adrenoceptors inhibit neutrophil extracellular traps in human polymorphonuclear leukocytes J. Leukoc. Biol. 2018-04-18 [PMID: 29668114] (ICC/IF, Human)

Chong W, Fantl JA, Donovan M, Ascher-Walsh C. Beta-3 adrenoceptor expression in the uterosacral ligament in the postmenopausal women with pelvic organ prolapse. Neurourol. Urodyn. 2018-04-10 [PMID: 29635716] (IF/IHC)

Procedures

Immunohistochemistry Protocol for Beta 3 Adrenergic Receptor Antibody (NLS4198)

Immunohistochemistry Protocol for Beta 3 Adrenergic Receptor Antibody (NLS4198):

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 NLS4198

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-68782PEP	beta-3 Adrenergic R/ADRB3 Recombinant Protein Antigen

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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