

Product Datasheet

EDNRB/Endothelin R Type B Antibody - BSA Free NLS54

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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NLS54

EDNRB/Endothelin R Type B 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	1910
Gene Symbol	EDNRB
Species	Human, Mouse, Canine
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28459448). Predicted cross-reactivity based on sequence identity: Gorilla (95%), Gibbon (95%), Monkey (89%), Marmoset (84%).
Specificity/Sensitivity	Human EDNRB. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except PTPN5 (68%).
Immunogen	Synthetic 19 amino acid peptide from N-terminal extracellular domain of human EDNRB/Endothelin R Type B.

Product Application Details

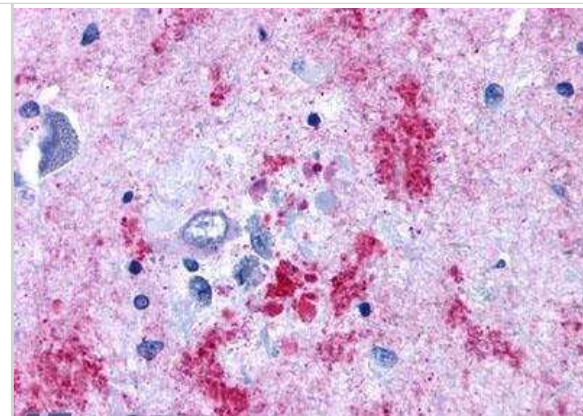
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 4-11 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 4-11 ug/ml
Application Notes	Use in ICC/IF reported in scientific literature (PMID : 28459448).

Images

Immunocytochemistry/Immunofluorescence: EDNRB/Endothelin R Type B Antibody [NLS54] - Analysis of anti-EDNRB / Endothelin B Receptor antibody with transfected cells expressing Endothelin B Receptor at 4 ug/ml.



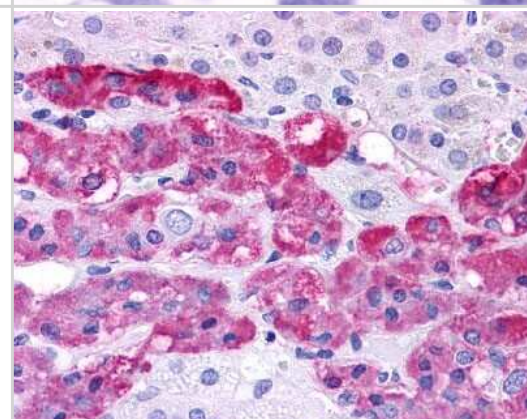
Immunohistochemistry-Paraffin: EDNRB/Endothelin R Type B Antibody [NLS54] - Brain, Alzheimer's senile plaque



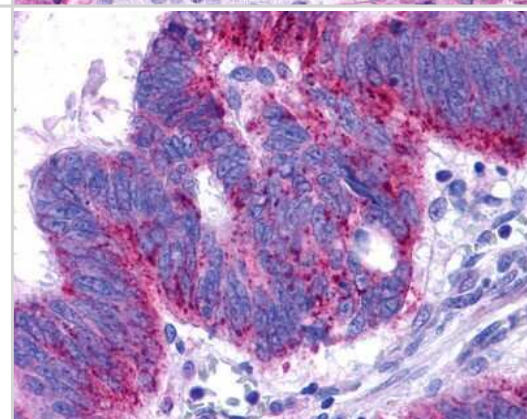
Immunocytochemistry/Immunofluorescence: EDNRB/Endothelin R Type B Antibody [NLS54] - Analysis of anti-EDNRB / Endothelin B Receptor antibody with cells expressing vector only using this antibody at 4 ug/ ml.



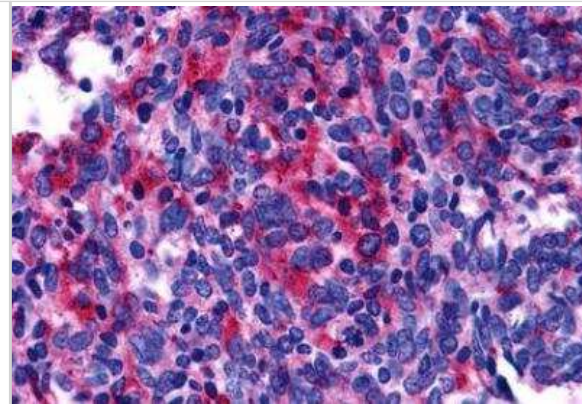
Immunohistochemistry-Paraffin: EDNRB/Endothelin R Type B Antibody [NLS54] - Analysis of anti-EDNRB / Endothelin B Receptor antibody with adrenal, medulla at 4 ug/ ml.



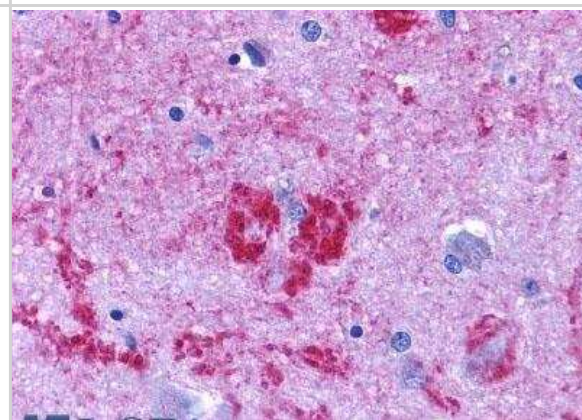
Immunohistochemistry-Paraffin: EDNRB/Endothelin R Type B Antibody [NLS54] - Analysis of anti-EDNRB / Endothelin B Receptor antibody with human colon, carcinoma.



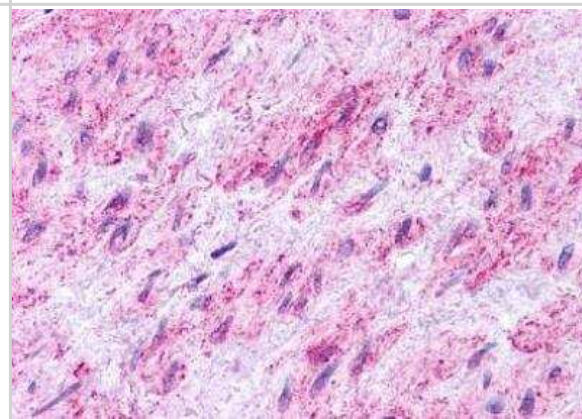
Immunohistochemistry-Paraffin: EDNRB/Endothelin R Type B Antibody [NLS54] - Human Lung, Small Cell Carcinoma of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry-Paraffin: EDNRB/Endothelin R Type B Antibody [NLS54] - Brain, Dementia, Senile Plaque



Immunohistochemistry-Paraffin: EDNRB/Endothelin R Type B Antibody [NLS54] - Artery, smooth muscle



Publications

Milara J, Roger I, Montero P et al. Targeting IL-11 system as a treatment of pulmonary arterial hypertension Pharmacological research 2023-11-01 [PMID: 37949331]

Rizvi AH, Camara PG, Kandror EK et al. Single-cell topological RNA-seq analysis reveals insights into cellular differentiation and development. Nat. Biotechnol. 2017-06-01 [PMID: 28459448] (ICC/IF, Mouse)

Comellas AP, Briva A, Dada LA et al. Endothelin-1 Impairs Alveolar Epithelial Function via Endothelial ETB Receptor. Am J Respir Crit Care Med;179(2):113-122. 2009-01-01 [PMID: 18948426]

Procedures

Immunohistochemistry Protocol for Endothelin B Receptor Antibody (NLS54)

Immunohistochemistry Protocol for Endothelin B Receptor Antibody (NLS54):

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 NLS54

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00001910-G01	Recombinant Human EDNRB/Endothelin R Type B Protein

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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