

Product Datasheet

CXCR4 Antibody - BSA Free NLS1380

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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NLS1380

CXCR4 Antibody - BSA Free

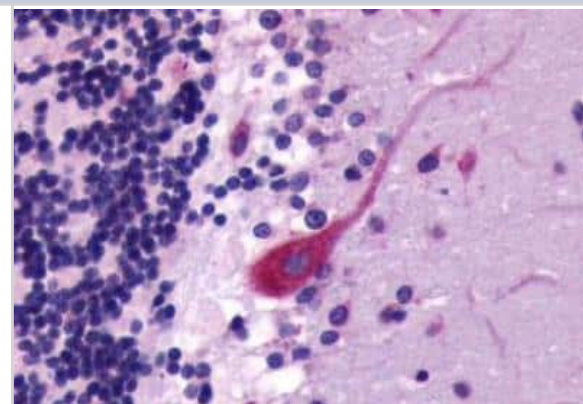
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Description	Product can be stored undiluted at 4C for up to 1 month.
Host	Rabbit
Gene ID	7852
Gene Symbol	CXCR4
Species	Human, Mouse, Rat, Chicken, Hamster, Primate, Monkey, Rabbit
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Baboon (100%), Marmoset (100%).
Specificity/Sensitivity	Human CXCR4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Immunogen	Synthetic 20 amino acid peptide from 3rd cytoplasmic domain of human CXCR4.

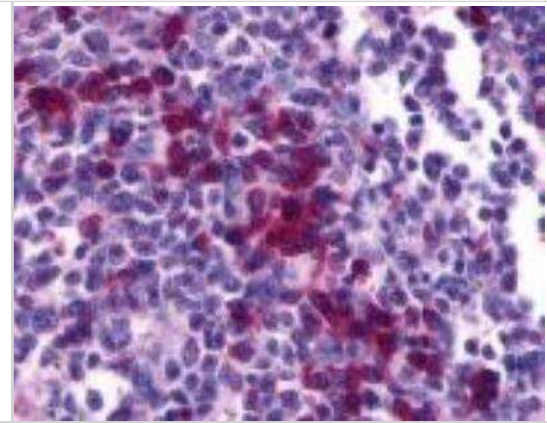
Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry, Immunohistochemistry-Paraffin 9-14 ug/mL, Immunohistochemistry-Frozen
Application Notes	CXCR4 antibody validated for IHC-Fr from a verified customer review.

Images

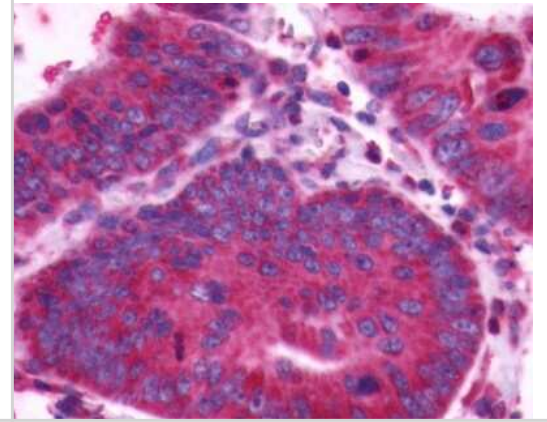
Immunohistochemistry-Paraffin: CXCR4 Antibody [NLS1380] - Brain Cerebellum Purkinje Neuron



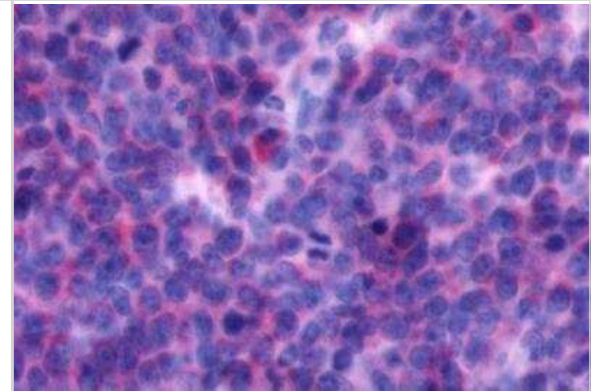
Immunohistochemistry-Paraffin: CXCR4 Antibody [NLS1380] - Analysis of anti-CXCR4 antibody with human tonsil.



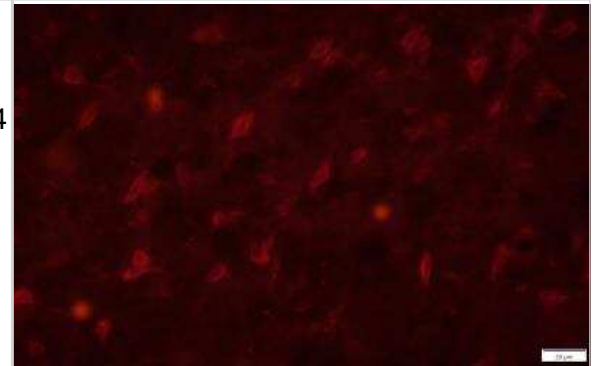
Immunohistochemistry-Paraffin: CXCR4 Antibody [NLS1380] - Analysis of anti-CXCR4 antibody with human colon, carcinoma.



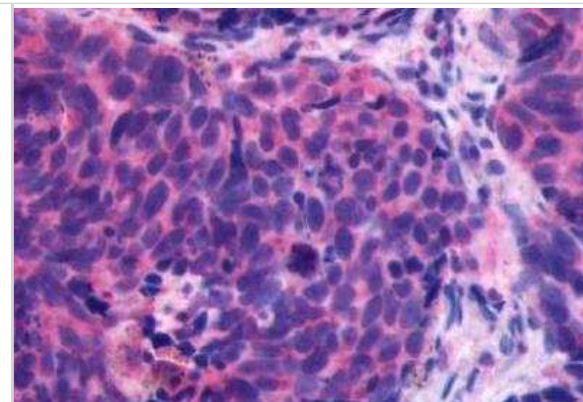
Immunohistochemistry-Paraffin: CXCR4 Antibody [NLS1380] - Human Lymph Node, Non-Hodgkins Lymphoma formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry-Frozen: CXCR4 Antibody [NLS1380] - Rat brain tissue sections. Rat Nucleus Accumbens treated with MDPV. Images taken with fluorescent microscope. Primary antibody was diluted to 1:200. Secondary antibody used was donkey anti-Rabbit Alexa Fluor 594 at 1:500. IHC-Fr image submitted by a verified customer review.



Immunohistochemistry-Paraffin: CXCR4 Antibody [NLS1380] - Lung, small cell carcinoma



Publications

Rohlenova K, Goveia J, Garcia-Caballero M et al. Single-Cell RNA Sequencing Maps Endothelial Metabolic Plasticity in Pathological Angiogenesis *Cell Metab.* 2020-04-07 [PMID: 32268117]

Goveia J, Rohlenova K, Taverna F et al. An Integrated Gene Expression Landscape Profiling Approach to Identify Lung Tumor Endothelial Cell Heterogeneity and Angiogenic Candidates *Cancer Cell* 2020-01-13 [PMID: 31935371]

McLeod DS, Hasegawa T, Baba T et al. From Blood Islands to Blood Vessels: Morphologic Observations and Expression of Key Molecules during Hyaloid Vascular System Development. *Invest Ophthalmol Vis Sci* 2012-12-03 [PMID: 23092923]

Bhutto, I et al. Localisation of SDF-1 its receptor CXCR4 in retina choroid of aged human eyes in eyes with age related macular degeneration. Bhutto, I. A., McLeod, D. S., Merges, C., Hasegawa, T., Luty, G. A. (2006) Localisation of SDF-1 its receptor CXCR4 in retina choroid of aged human eyes in eyes with age related macular degeneration, 90, 906-910. *Br. J. Ophthalmol*; 90: 906-910. 2006-01-01 [PMID: 16597663]

Baba T, McLeod DS, Edwards MM et al. VEGF(165) b in the developing vasculatures of the fetal human eye. *Dev Dyn.* 2012-03-01 [PMID: 22275161]

Procedures

Immunohistochemistry protocol for CXCR4 Antibody (NLS1380)

Immunohistochemistry Protocol for CXCR4 Antibody (NLS1380):

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 NLS1380

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-24862PEP	CXCR4 Antibody Blocking 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.

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