

# Product Datasheet

## CXCR3 Antibody - BSA Free

### NB100-56404

Unit Size: 0.1 mg

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

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**NB100-56404**

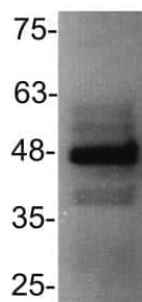
CXCR3 Antibody - BSA Free

| Product Information         |   |
|-----------------------------|---|
| Unit Size                   | 0.1 mg  |
| Concentration               | 1.0 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  |
| Isotype                     | IgG   |
| Purity                      | Protein G purified  |
| Buffer                      | PBS   |
| Target Molecular Weight     | 41 kDa  |
| Product Description         |   |
| Description                 | Novus Biologicals Rabbit CXCR3 Antibody - BSA Free (NB100-56404) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-CXCR3 Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.   |
| Host                        | Rabbit  |
| Gene ID                     | 2833  |
| Gene Symbol                 | CXCR3   |
| Species                     | Human, Mouse  |
| Immunogen                   | This antibody was developed against a synthetic peptide corresponding to amino acids 290-303 of human CXCR3.  |
| Product Application Details |   |
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Proximity Ligation Assay  |
| Recommended Dilutions       | Western Blot 1 - 3 ug/mL, Immunohistochemistry, Immunocytochemistry/Immunofluorescence reported in scientific literature (PMID 31887215), Immunohistochemistry-Paraffin 1:10 - 1:500, Immunohistochemistry-Frozen reported in scientific literature (PMID 19234157), Proximity Ligation Assay reported in scientific literature (PMID 34433033) |
| Application Notes           | The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.   |

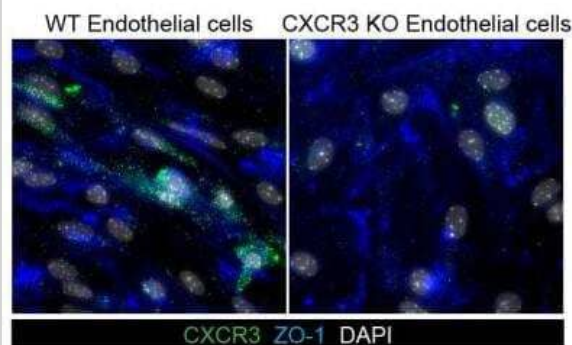


## Images

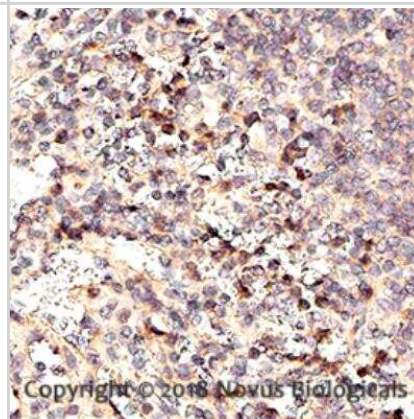
Western Blot: CXCR3 Antibody [NB100-56404] - HEK293T cells.  
Western blot image submitted by a verified customer review.



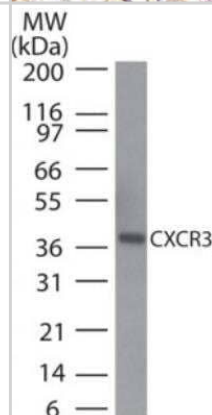
Immunocytochemistry/Immunofluorescence: CXCR3 Antibody [NB100-56404] - Brain microvascular endothelial cells isolated from WT and CXCR3 KO mice were stained with anti-CXCR3 (green) and anti-ZO-1 (blue) antibodies to analyze CXCR3 expression by immunofluorescence. Image from verified customer review.



Immunohistochemistry-Paraffin: CXCR3 Antibody [NB100-56404] - IHC analysis of a FFPE human spleen using 1:25 dilution of CXCR3 antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of HIER using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (40X) was performed using Aperio AT2 (Leica Biosystems). Staining was performed by Histowiz.



Western Blot: CXCR3 Antibody [NB100-56404] - Analysis of CXCR3 in human pancreas lysate using CXCR3 antibody at 2 ug/mL. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



## Publications

Lin Y, Zhou HC, Chen N et al. Unveiling the improved targeting migration of mesenchymal stem cells with CXC chemokine receptor 3-modification using intravital NIR-II photoacoustic imaging *Journal of Nanobiotechnology* 2022-12-01 [PMID: 35764961]

Alluri SR, Higashi Y, Berendzen A et al. Synthesis and preclinical evaluation of a novel fluorine-18 labeled small-molecule PET radiotracer for imaging of CXCR3 receptor in mouse models of atherosclerosis *EJNMMI Research* 2023-07-13 [PMID: 37438543]

Mendes N, Zanesco A, Aguiar C et al. CXCR3-expressing myeloid cells recruited to the hypothalamus protect against diet-induced body mass gain and metabolic dysfunction *Elife* 2024-11-13 [PMID: 39535032]

Alluri SR, Higashi Y, Berendzen A et al. Synthesis and preclinical evaluation of a novel fluorine-18 labeled small-molecule PET radiotracer for imaging of CXCR3 receptor in mouse models of atherosclerosis *Research square* 2023-02-23 [PMID: 36865232] (IHC, Mouse)

Zhu L, Gao H, Huang S et al. Combination of STING agonist and CXCR3 antagonist disrupts immune tolerance to overcome anti-PD-L1 resistance in lung adenocarcinoma under oxidative stress *Gene* 2022-10-19 [PMID: 36272651] (IF/IHC, Mouse)

Park JY, Yoo KD, Bae E et al. Blockade of STAT3 signaling alleviates progression of acute kidney injury-to-chronic kidney disease through anti-apoptosis *American journal of physiology. Renal physiology* 2022-03-21 [PMID: 35311382] (IF/IHC)

Javeed N, Her TK, Brown MR Et al. Pro-inflammatory beta cell small extracellular vesicles induce beta cell failure through activation of the CXCL10/CXCR3 axis in diabetes *Cell reports* 2021-08-24 [PMID: 34433033] (PLA, Mouse)

Petrisko TJ, Bloemer J, Pinky PD et al. Neuronal CXCL10/CXCR3 Axis Mediates the Induction of Cerebral Hyperexcitability by Peripheral Viral Challenge *Front Neurosci* 2020-03-24 [PMID: 32265633] (ICC/IF, Mouse)

Alvarez-Carbonell D, Ye F, Ramanath N et al. Cross-talk between microglia and neurons regulates HIV latency *PLoS Pathog.* 2019-12-01 [PMID: 31887215] (ICC/IF, Human)

Suttorp CM, Cremers NA, van Rheden R et al. Chemokine Signaling during Midline Epithelial Seam Disintegration Facilitates Palatal Fusion *Front Cell Dev Biol.* 2017-10-30 [PMID: 29164113] (IHC-P, Mouse)

### Details:

Used CXCR3 IHC antibody from Novus to quantify CXCR3 in palatal shelve mesenchyme

Brambilla R, Persaud T, Hu XC et al. Transgenic Inhibition of Astroglial NF- $\kappa$ B Improves Functional Outcome in Experimental Autoimmune Encephalomyelitis by Suppressing Chronic Central Nervous System Inflammation . *J Immunol* 182 2628-2640. 2009-01-01 [PMID: 19234157]





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### **Products Related to NB100-56404**

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|             |   |
|-------------|---|
| NBL1-09631  | CXCR3 Overexpression Lysate                         |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP]                 |
| HAF008      | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160      | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891  | Rabbit IgG Isotype Control                          |

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### **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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