

Product Datasheet

CXCR4 Antibody - BSA Free

NBP1-77067

Unit Size: 0.1 mg

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

www.novusbio.com



technical@novusbio.com

Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-77067

Updated 10/23/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-77067



NBP1-77067

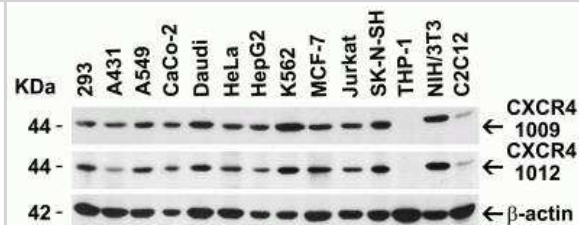
CXCR4 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	40 kDa
Product Description	
Host	Rabbit
Gene ID	7852
Gene Symbol	CXCR4
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (86%)
Specificity/Sensitivity	Human CXCR4 has four isoforms, including isoform a (356aa, 40.2kD), isoform b (352aa, 39.7kD), isoform c (423aa, 47.6kD), and isoform d (385aa, 43.4kD). This antibody detects human isoform b only, but not other human isoforms. Mouse CXCR4 has two isoforms, including isoform 1 (359aa, 40.4kD) and isoform 2 (357aa, 40.2kD). Rat CXCR4 has only one isoform identified so far (349aa, 39.4kD). CXCR4 Antibody is predicted to not cross-react with other CXCR family members.
Immunogen	Antibody was raised against a peptide corresponding to 14 amino acids near the amino terminus of human CXCR4 isoform b. The immunogen is located within the first 50 amino acids of CXCR4. Amino Acid Sequence: MEGISYITSDNYTE
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 0.1 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry 2.5 ug/ml, Immunocytochemistry/ Immunofluorescence 2-20 ug/mL, Immunohistochemistry-Paraffin 5 ug/mL, Knockout Validated, Knockdown Validated
Application Notes	Knockdown validation reported in scientific literature (PMID: 31239444).

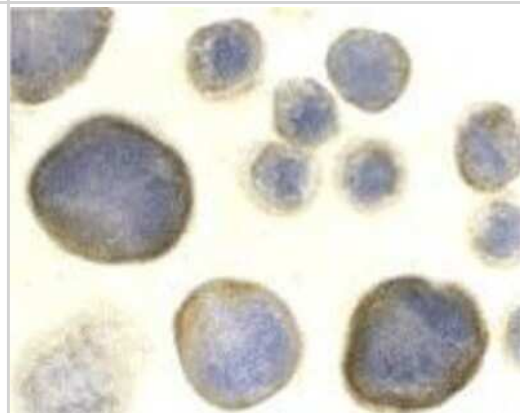


Images

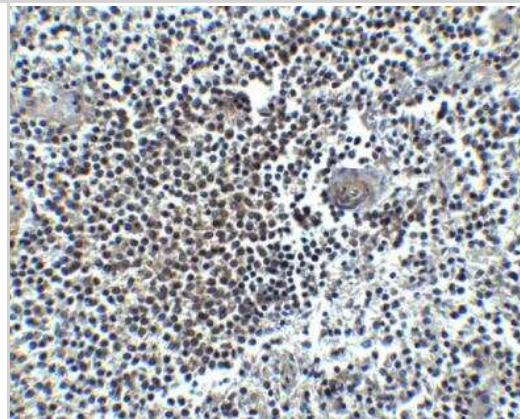
Western Blot: CXCR4 Antibody [NBP1-77067] - Loading: 15 ug of lysates per lane. Antibodies: NBP1-7706 (1 ug/mL), NBP1-76480 (1 ug/mL), and beta-actin (1 ug/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat antirabbit IgG HRP



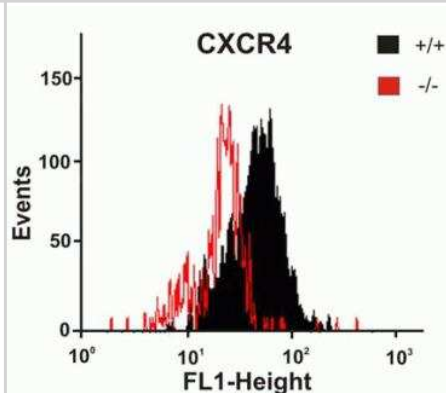
Immunocytochemistry/Immunofluorescence: CXCR4 Antibody [NBP1-77067] - HeLa cells with CXCR4 antibody at 2 ug/ml.



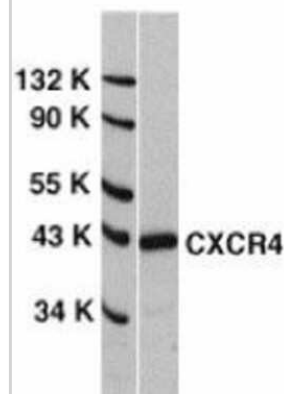
Immunohistochemistry-Paraffin: CXCR4 Antibody [NBP1-77067] - Human spleen tissue with CXCR4 antibody at 5 ug/mL.



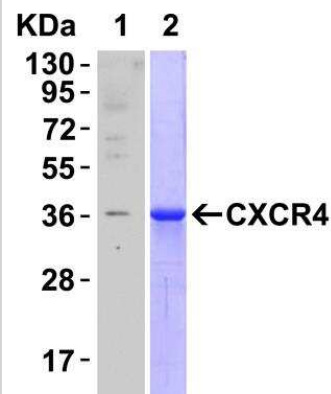
Flow Cytometry: CXCR4 Antibody [NBP1-77067] - Astrocytes from wild-type or CXCR4 knockout mice were stained with primary antibodies against CXCR4 and FITClabeled secondary antibodies, and subsequently subjected to flow cytometry. CXCR4^{-/-} astrocytes (red) showed loss of CXCR4 cell-surface expression compared with wild-type cells (black).



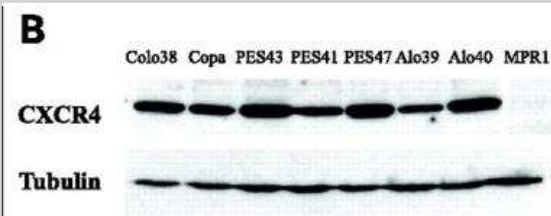
Western Blot: CXCR4 Antibody [NBP1-77067] - HeLa whole cell lysate with CXCR4 antibody at 0.5 ug/ml.



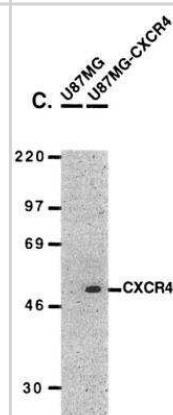
Western Blot: CXCR4 Antibody [NBP1-77067] - Recombinant Protein Test: Loading: CXCR4 partial recombinant protein (H00007852-Q01). Lane 1: Anti-CXCR4 antibody (0.1 ug/mL) 1 h incubation at RT in 5% NFDM/TBST. Lane 2: Coomassie blue staining.



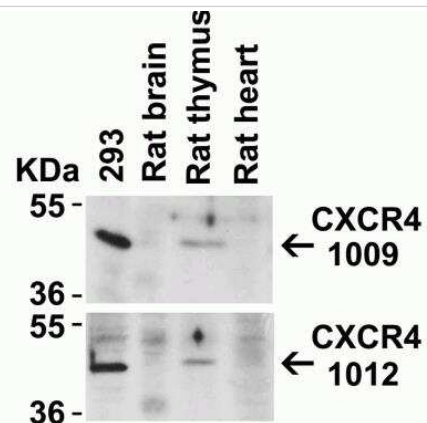
Western Blot: CXCR4 Antibody [NBP1-77067] - CXCR4 protein was detected in the human metastatic melanoma cell lines and human melanoma cell line (colo38), but not in the human primary melanocytes (MPR1) with anti-CXCR4 antibodies.



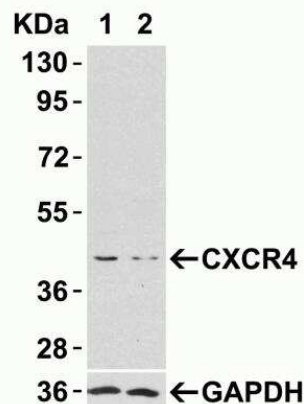
Western Blot: CXCR4 Antibody [NBP1-77067] - U87MG and U87MG-CXCR4 extracts were included as negative and positive controls, respectively, for CXCR4 detection with anti-CXCR4 antibodies.



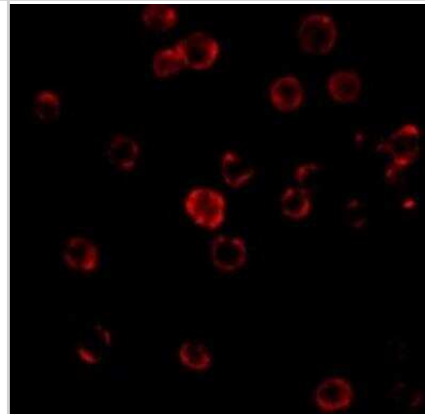
Western Blot: CXCR4 Antibody [NBP1-77067] - Loading: Lysates/proteins at 20 ug per lane. Antibodies: NBP1-7706 (2 ug/mL) or NBP1-76480 (2 ug/mL). 1 h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot: CXCR4 Antibody [NBP1-77067] - HeLa cells were transfected with control siRNAs (lane 1) or CXCR4 siRNAs (lane 2) Loading: 10 ug of HeLa whole cell lysates per lane. Antibodies: NBP1-7706 (2 ug/mL), 1 h incubation at RT in 5% NFD/MTBST. Secondary: Goat antirabbit IgG HRP conjugate at 1:10000 dilution.



Immunocytochemistry/Immunofluorescence: CXCR4 Antibody [NBP1-77067] - HeLa cells with CXCR4 antibody at 20 ug/mL.



Flow Cytometry: CXCR4 Antibody [NBP1-77067] - Analysis of HeLa cells using CXCR4 antibody at 0.1 ug/ml. Purple: cells without staining, Green: Isotype control. Red : CXCR4 antibody.



Publications

Yang S, Wei J, Cui YH et al. m6A mRNA demethylase FTO regulates melanoma tumorigenicity and response to anti-PD-1 blockade Nat Commun. 2019-06-25 [PMID: 31239444] (WB, Knockdown Validated, Mouse)

Iseki M, Kushida Y, Wakao S et al. Muse Cells, Nontumorigenic Pluripotent-Like Stem Cells, Have Liver Regeneration Capacity Through Specific Homing and Cell Replacement in a Mouse Model of Liver Fibrosis. Cell Transplant 2017-05-09 [PMID: 27938474] (Human)

Hattermann K, Holzenburg E, Hans F et al. Effects of the chemokine CXCL12 and combined internalization of its receptors CXCR4 and CXCR7 in human MCF-7 breast cancer cells. Cell Tissue Res. 2014-04-26 [PMID: 24770893] (ICC/IF, Human)

Details:
MCF-7, Figs 2,3.

Malvoisin E, Livrozet JM, Makloufi D et al. Soluble chemokine receptor CXCR4 is present in human sera. Anal Biochem. 2011-07-15 [PMID: 21440527]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-77067

NBP1-77067PEP	CXCR4 Antibody Blocking Peptide
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-77067

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

