

Product Datasheet

CXCR4 Antibody - BSA Free

NBP1-76480

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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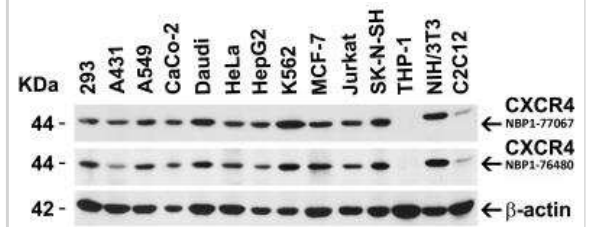
NBP1-76480

CXCR4 Antibody - BSA Free

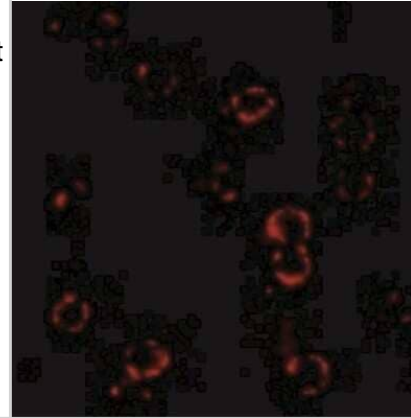
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	40 kDa
Product Description	
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%), Sheep (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).
Immunogen	Antibody was raised against a peptide corresponding to 15 amino acids near the center of human CXCR4 isoform b. The immunogen is located within amino acids 170-220 of CXCR4. Amino Acid Sequence: DRYICDRFYPNDLWV
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 1-2 ug/mL, ELISA 1:100-1:2000, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 4 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml, Knockdown Validated

Images

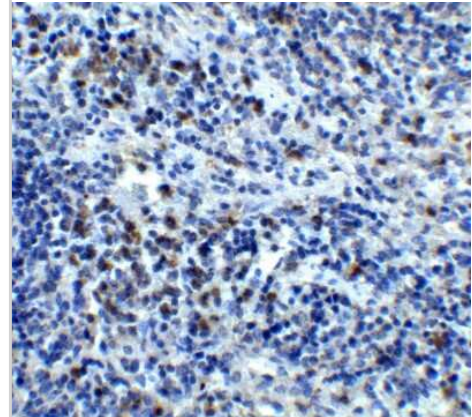
Western Blot: CXCR4 Antibody [NBP1-76480] - Independent Antibody Validation (IAV) via Protein Expression Profile Loading: 15 ug of lysates per lane. Antibodies: NBP1-77067 (1 ug/mL), NBP1-76480 (1 ug/mL), and beta-actin (1 ug/mL), 1 h incubation at RT in 5% NFDm/TBST.



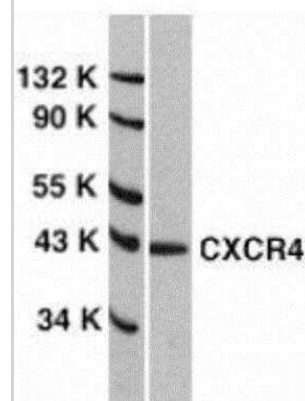
Immunocytochemistry/Immunofluorescence: CXCR4 Antibody [NBP1-76480] - Immunofluorescence of CXCR4 in cells with CXCR4 antibody at 4 ug/ml.



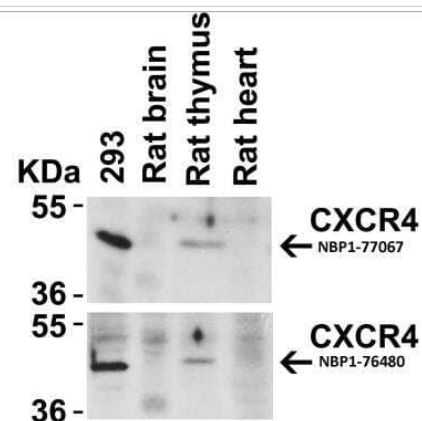
Immunohistochemistry-Paraffin: CXCR4 Antibody [NBP1-76480] - Staining of CXCR4 in mouse spleen tissue with CXCR4 antibody at 5 ug/ml.



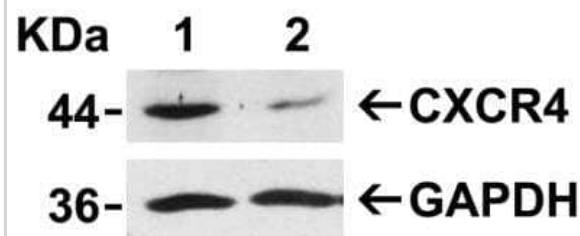
Western Blot: CXCR4 Antibody [NBP1-76480] - HeLa total cell lysate.



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



Knockdown Validated: CXCR4 Antibody [NBP1-76480] - Validation with CXCR4 siRNA Knockdown. 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: NBP1-76480 (2 ug/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate.



Publications

Kunz L, Schroeder T A 3D Tissue-wide Digital Imaging Pipeline for Quantitation of Secreted Molecules Shows Absence of CXCL12 Gradients in Bone Marrow Cell Stem Cell 2019-12-05 [PMID: 31809740] (ICC/IF, Mouse)



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 NBP1-76480

NBP1-76480PEP	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.

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