

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

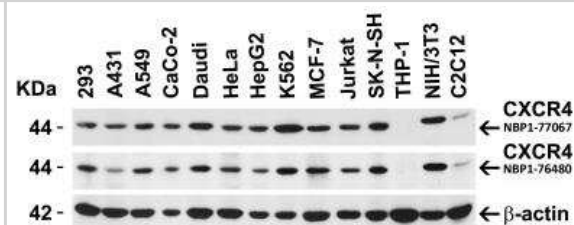
CXCR4 Antibody - BSA Free

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	
Description	Novus Biologicals Rabbit CXCR4 Antibody - BSA Free (NBP1-76480) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-CXCR4 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
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, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, 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



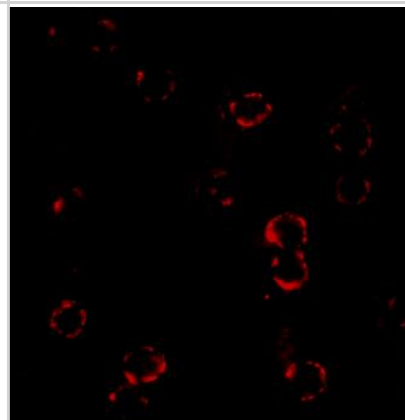
Images

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% NFDN/TBST.

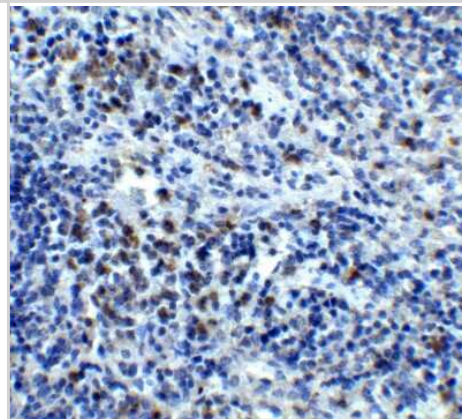


Immunocytochemistry/ Immunofluorescence: CXCR4 Antibody - BSA Free [NBP1-76480] - **Figure 5 Immunofluorescence Validation of CXCR4**

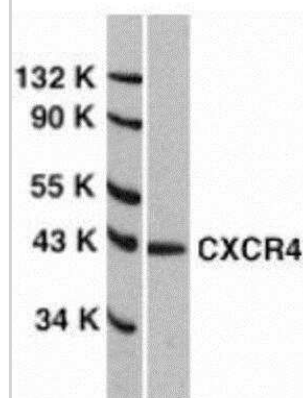
Immunofluorescent analysis of 4% paraformaldehyde-fixed HeLa cells labeling CXCR4 with at 4 u/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red). Image showing both membrane and cytoplasmic staining on HeLa cell line.



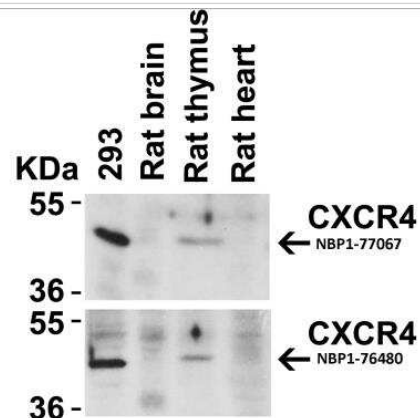
Immunohistochemistry-Paraffin: CXCR4 Antibody [NBP1-76480] - Staining of CXCR4 in mouse spleen tissue with CXCR4 antibody at 5 ug/ml.



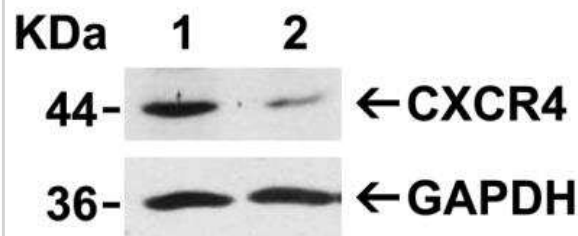
Western Blot: CXCR4 Antibody [NBP1-76480] - HeLa total cell lysate.



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.



Western Blot: 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)



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Products Related to NBP1-76480

NBP1-76480PEP	CXCR4 Antibody Blocking Peptide
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

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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