

CXCR7 Polyclonal Antibody

Catalog NumberPA5-27077

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Human, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * Assay-dependent
Immunogen	Synthetic peptide corresponding to a region within amino acids 187 and 282 of Human CXCR7	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Conjugate	Unconjugated	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Form	Liquid	Immunoprecipitation (IP)	Assay-dependent
Concentration	0.14 mg/mL	Western Blot (WB)	1:500-1:3,000
Purification	Antigen affinity chromatography	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol	Published Applications	
Contains	0.025% ProClin 300	Immunohistochemistry (IHC)	See 1 publications below
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Product specific information

Recommended positive controls: PC-3, U87-MG, human CXCR7 transfected Mesenchymal stem cells. Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

This gene encodes a member of the G-protein coupled receptor family. Although this protein was earlier thought to be a receptor for vasoactive intestinal peptide (VIP), it is now considered to be an orphan receptor, in that its endogenous ligand has not been identified. The protein is also a coreceptor for human immunodeficiency viruses (HIV). Translocations involving this gene and HMGA2 on chromosome 12 have been observed in lipomas.

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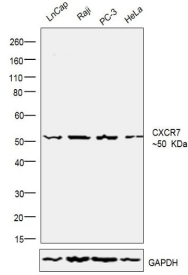
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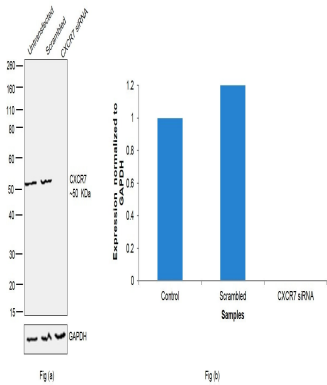
CXCR7 Antibody (PA5-27077) in WB

Western blot was performed using Anti-CXCR7 polyclonal Antibody (Product # PA5-27077) and ~50 kDa band corresponding to CXCR7 was observed across the cell lines tested. Whole cell extracts (30 µg lysate) (1% SDS) of LNCaP (Lane 1), Raji (Lane 2), PC-3 (Lane 3) and HeLa (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1,000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



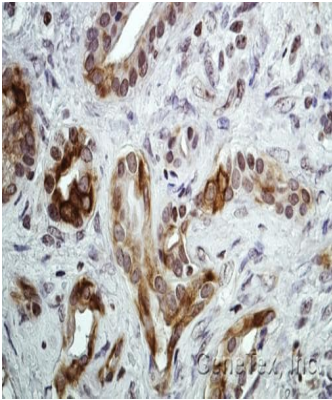
CXCR7 Antibody (PA5-27077)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. LnCaP cells were transfected with CXCR7 siRNA and decrease in signal intensity was observed in western blot application using Anti-CXCR7 Polyclonal Antibody (Product # PA5-27077). {KD}



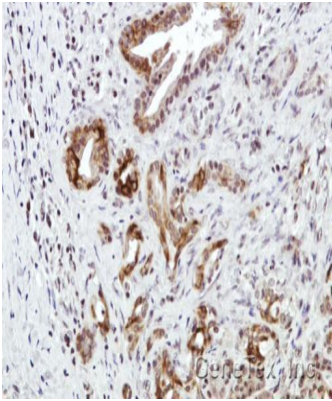
CXCR7 Antibody (PA5-27077) in IHC (P)

Immunohistochemical analysis of paraffin-embedded Human pancreatic tumor, using CXCR7 (Product # PA5-27077) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



CXCR7 Antibody (PA5-27077) in IHC (P)

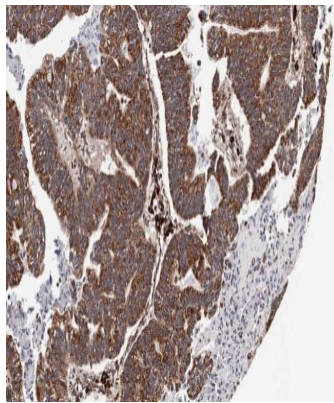
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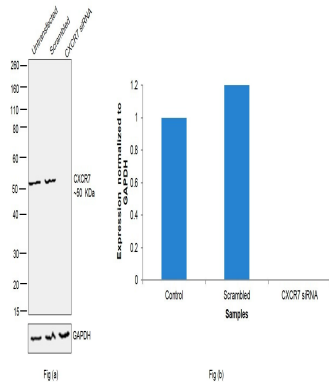
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CXCR7 Antibody (PA5-27077) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human gastric cancer, using CXCR7 (Product # PA5-27077) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

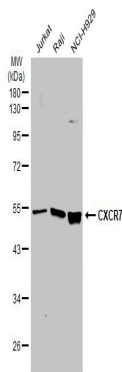


CXCR7 Antibody (PA5-27077) in WB

Knockdown of CXCR7 was achieved by transfecting LNCaP cells with CXCR7 specific siRNAs (Silencer® select Product # s94, s95). Western blot analysis (Fig. a) was performed using whole cell extracts from the CXCR7 knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with CXCR7 Polyclonal Antibody (Product # PA5-27077, 1:1000 dilution) and Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to CXCR7..

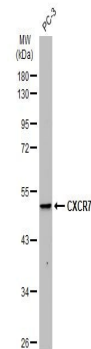
CXCR7 Antibody (PA5-27077) in WB

Western Blot using CXCR7 Polyclonal Antibody (Product # PA5-27077). Various whole cell extracts (30 µg) were separated by 10% SDS-PAGE, and the membrane was blotted with CXCR7 Polyclonal Antibody (Product # PA5-27077) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



CXCR7 Antibody (PA5-27077) in WB

Western Blot using CXCR7 Polyclonal Antibody (Product # PA5-27077). Whole cell extract (30 µg) was separated by 10% SDS-PAGE, and the membrane was blotted with CXCR7 Polyclonal Antibody (Product # PA5-27077) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



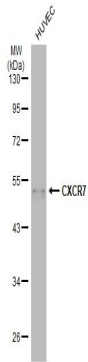
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CXCR7 Antibody (PA5-27077) in WB

Western Blot using CXCR7 Polyclonal Antibody (Product # PA5-27077). Whole cell extract (30 µg) was separated by 10% SDS-PAGE, and the membrane was blotted with CXCR7 Polyclonal Antibody (Product # PA5-27077) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



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PubMed References For CXCR7 Polyclonal Antibody

1 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	PA5-27077 was used in Immunohistochemistry to demonstrate that in overweight men with localized CaP, weight loss alters blood, and tissue biomarkers, as well as tumor gene expression.
	Urologic oncology (2021; 39: 495.e7) "Exploration of biomarkers from a pilot weight management study for men undergoing radical prostatectomy." Author(s):Dimachkie MD,Bechtel MD,Robertson HL,Michel C,Lee EK,Sullivan DK,Chalise P,Thrasher JB,Parker WP,Godwin AK,Pathak HB,DiGiovanni J,Shivappa N,Hébert JR,Hamilton-Reeves JM PubMed Article URL: http://dx.doi.org/10.1016/j.urolonc.2021.01.010

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