

For Research Use Only

# CXCR7 Monoclonal antibody

Catalog Number: 60216-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 60216-1-Ig	<b>GenBank Accession Number:</b> BC036661	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57007	<b>CloneNo.:</b> 4C3D7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P25106	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000 IHC: 1:20-1:200 IF-P: 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> chemokine (C-X-C motif) receptor 7	
<b>Immunogen Catalog Number:</b> AG14247	<b>Calculated MW:</b> 362 aa, 41 kDa	
	<b>Observed MW:</b> 50-60 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, ELISA

**Cited Applications:**  
WB, IHC

**Species Specificity:**  
human, mouse

**Cited Species:**  
human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** PC-3 cells, U-87 MG cells, Jurkat cells, Raji cells, K-562 cells, THP-1 cells

**IHC :** human breast cancer tissue,

**IF-P :** human breast cancer tissue, human prostate cancer tissue, mouse spleen tissue

## Background Information

CXCR7 (C-X-C chemokine receptor type 7), also known as RDC1, is a member of the G-protein coupled receptor family. CXCR7 can bind the chemokines CXCL11 and CXCL12 with high affinity, and it also acts as a coreceptor with CXCR4 for a restricted number of HIV isolates. Expression of CXCR7 has been associated with cardiac development as well as with tumor growth and progression. This antibody recognizes endogenous CXCR7, which has an experimentally determined molecular weight of 50 kDa (PMID: 20197403; 20388803).

## Notable Publications

Author	Pubmed ID	Journal	Application
Pedro Bargão Santos	32278731	Urol Oncol	IHC
Genwang Wang	40249447	Discov Oncol	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

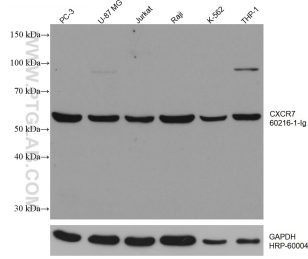
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

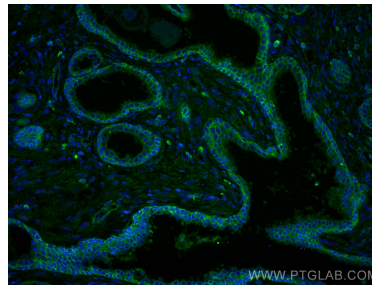
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

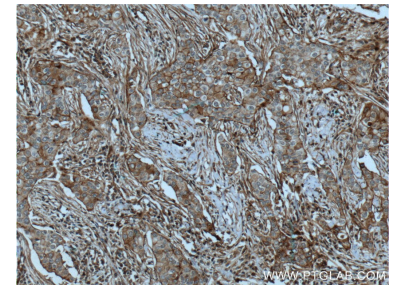
## Selected Validation Data



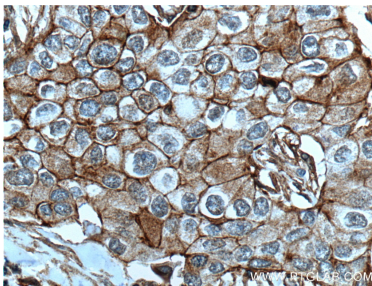
Various lysates were subjected to SDS PAGE followed by western blot with 60216-1-Ig (CXCR7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



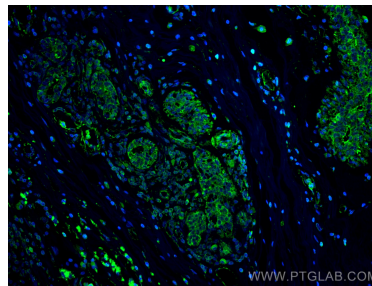
Immunofluorescent analysis of (4% PFA) fixed human prostate cancer tissue using CXCR7 antibody (60216-1-Ig, Clone: 4C3D7) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



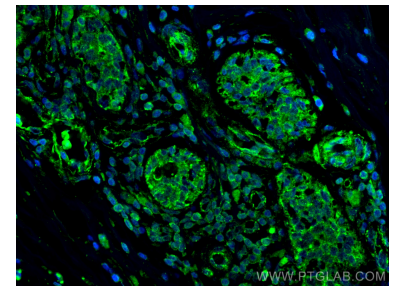
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60216-1-Ig (CXCR7 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



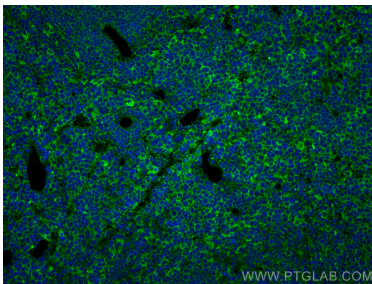
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60216-1-Ig (CXCR7 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CXCR7 antibody (60216-1-Ig, Clone: 4C3D7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CXCR7 antibody (60216-1-Ig, Clone: 4C3D7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse spleen tissue using CXCR7 antibody (60216-1-Ig, Clone: 4C3D7) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).