For Research Use Only

CXCR7 Monoclonal antibody

Catalog Number:60216-1-Ig 1 Publications

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Basic Information

Catalog Number:
60216-1-Ig

Size:
150ul , Concentration: 2700 ug/ml by Nanodrop and 1267 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG14247

GenBank Accession Number:
BC036661

GeneID (NCBI):
57007

UNIPROT ID:
P25106

Full Name:
chemokine (C-X-C motif) receptor 7

Calculated MW:
362 aa, 41 kDa

Observed MW:
50-60 kDa

Purification Method:
Protein A purification

CloneNo.:
4C3D7

Recommended Dilutions:
WB 1:1000-1:6000
IHC 1:20-1:200
IF-P 1:200-1:800

Applications

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

Cited Applications:
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

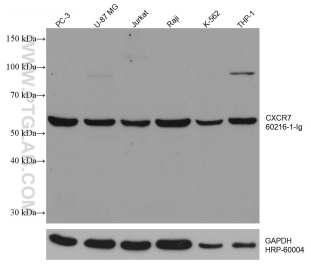
Storage

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

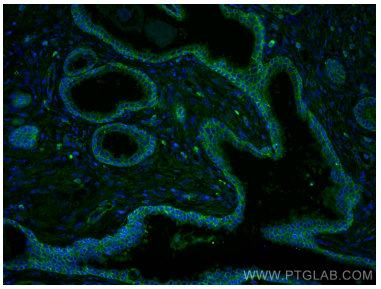
***** 20ul sizes contain 0.1% BSA**

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

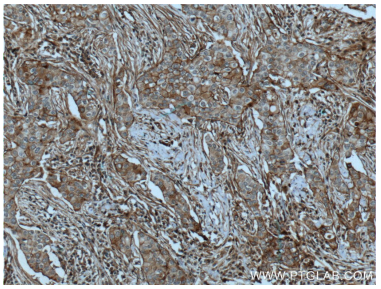
Selected Validation Data



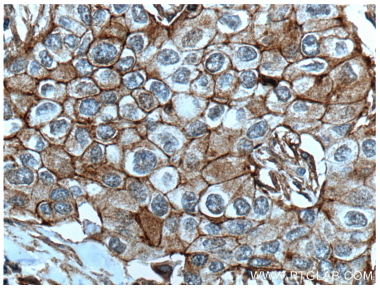
Various lysates were subjected to SDS PAGE followed by western blot with 60216-1-Ig (CXCR7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



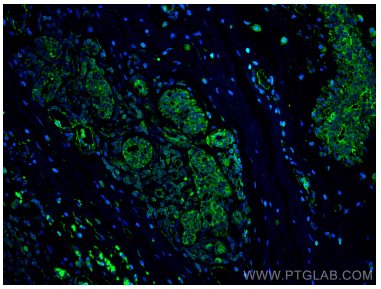
Immunofluorescent analysis of (4% PFA) fixed human prostate cancer tissue using CXCR7 antibody (60216-1-Ig, Clone: 4C3D7) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



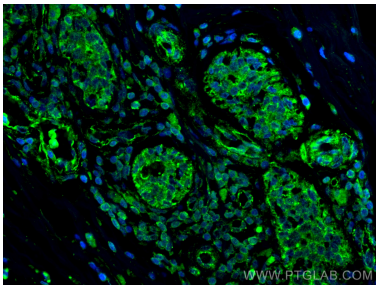
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60216-1-Ig (CXCR7 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



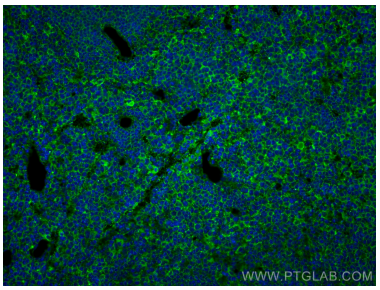
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60216-1-Ig (CXCR7 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).