

For Research Use Only

# CXCR7 Polyclonal antibody

Catalog Number: 20423-1-AP

Featured Product

13 Publications



## Basic Information

**Catalog Number:**  
20423-1-AP

**Size:**  
150ul, Concentration: 153 µg/ml by Bradford method using BSA as the standard;

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG14247

**GenBank Accession Number:**  
BC036661

**GeneID (NCBI):**  
57007

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

**Calculated MW:**  
362 aa, 41 kDa

**Observed MW:**  
45-50 kDa

**Purification Method:**  
Antigen affinity purification

**Recommended Dilutions:**  
WB 1:500-1:1000  
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB  
IHC 1:50-1:500

## Applications

**Tested Applications:**  
FC, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat

**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:** Raji cells, Jurkat cells, K-562 cells, mouse thymus tissue

**IP:** HUVEC cells,

**IHC:** mouse brain 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 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
Lulu Chen	32876991	Cell Biol Int	WB, IF, IHC
Liang Kuang	31662319	Ann Rheum Dis	WB
Yiru Shao	30551373	Biomed Pharmacother	WB

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

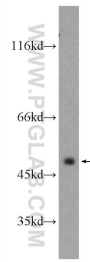
For technical support and original validation data for this product please contact:

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

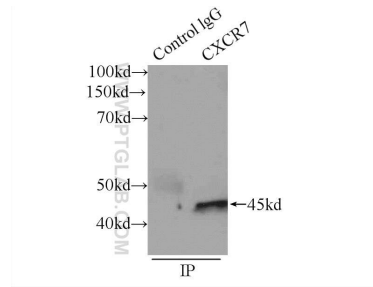
E: proteintech@ptglab.com  
W: ptglab.com

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

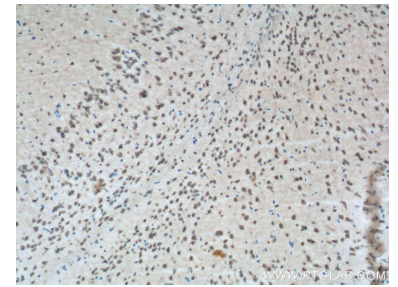
## Selected Validation Data



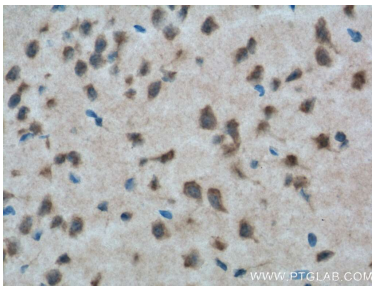
Raji cells were subjected to SDS PAGE followed by western blot with 20423-1-AP (CXCR7 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



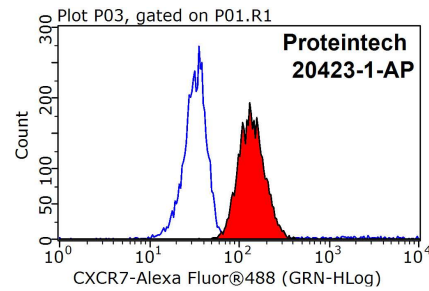
IP Result of anti-CXCR7 (IP:20423-1-AP, 3ug; Detection:20423-1-AP 1:500) with HUVEC cells lysate 1400ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20423-1-AP (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 mouse brain tissue slide using 20423-1-AP (CXCR7 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> Raji cells were stained with 0.2ug CXCR7 antibody (20423-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.