

## Rabbit Polyclonal Anti-CXCR2 antibody

Catalog Number: CXCR2-201AP

Lot Number:

### General Information

<b>Product</b>	CXCR2 Antibody
<b>Description</b>	IL8 Receptor beta Antibody Affinity Purified N-epitope
<b>Accession #</b>	Uniprot: P25025
<b>Verified Applications</b>	CM, ELISA, ICC/IF, IHC-Fr, IHC-P, IP, FC, WB
<b>Species Cross Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Immunogen</b>	Synthetic peptide:  EDLSNYSYSSTLPPFLDAAPC  Corresponding to amino acids 18-39 of Human CXCR2.
<b>Alternative Nomenclature</b>	C-X-C chemokine receptor type 2 antibody, CD 182 antibody, CMKAR2 antibody, CXCR2 antibody, GRO/MGSA receptor antibody, High affinity interleukin-8 receptor B antibody, IL 8 receptor type 2 antibody, Interleukin 8 Receptor B antibody

### Physical Properties

<b>Quantity</b>	100 µg
<b>Volume</b>	200 µl
<b>Form</b>	Affinity Purified Immunoglobulins
<b>Immunoglobulin &amp; Concentration</b>	0.50 mg/ml IgG in antibody stabilization buffer
<b>Determinant</b>	N-epitope
<b>Storage</b>	Store at -20°C for long term storage.

### Recommended Dilutions

<b>DOT Blot</b>	1:10,000
<b>ELISA</b>	1:10,000
<b>Immunocytochemistry</b>	1:200
<b>Immunofluorescence</b>	1:200
<b>Immunohistochemistry</b>	1:200
<b>Immunoprecipitation</b>	1:250
<b>Western Blot</b>	1:500 Predicted molecular weight: 55 kDa

## Related Products

## Catalog #

<b>BIOTIN-Conjugated</b>	CXCR20-BIOTIN
<b>FITC-Conjugated</b>	CXCR20-FITC
<b>Antigenic Blocking Peptide</b>	P-CXCR20
<b>Western Blot Positive Control</b>	PC-CXCR

## Application Verification:



WB of CXCR2-201AP and PC-CXCR2. 1:500 antibody dilution in DiluObuffer.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

## Overview:

Chemokine (Chemoattractant Cytokines) are small peptides that are potent activators and chemo-attractants for leukocyte subpopulations and other non-hemopoietic cells. Chemokine receptors (CXCR) belong to the super-family of G protein-coupled receptors (GPCR), which regulate the trafficking and activation of leukocytes, and operate as co-receptors in the entry of HIV-1 and proliferation and migration of immature neurons, glia and their precursors (1). Furthermore, chemokine receptors participate in the etiology and progression of various brain disorders, including AIDS dementia, neuro-inflammatory disease and neuroplasia, making them important potential therapeutic targets in these cases.

Activation of naïve T cells by specific antigen and cytokines, up-regulate cell adhesion molecules (CAM) as well as chemokine receptors on their surface, which directs them to migrate towards the inflamed tissues. The CXCR receptor protein is approximately 45-55 kDa (405 amino acids) protein which has 7 transmembrane domains, characteristic of G-protein coupled receptors. The protein has putative N-glycosylation sites near the extracellular N-terminal end of the protein. The protein has a large 3rd intracellular loop which interacts with G-proteins. The short carboxy terminal is intracellular and has putative post-translational sites.

The Anti-CXCR2-selective antibodies were generated against unique peptide sequence from CXCR2 receptors gene that is expressed only in a CXCR2 receptor subtype. The polyclonal antibodies were affinity purified on an immobilized antigen based affinity chromatography. Antigenic blocking peptides (P-CXCR2) and western blot positive control (PC-CXCR2) in ready to use SDS-sample buffer are available. Antibodies can be conjugated to fluorophores and other secondary enzymes upon request at nominal cost. FabGennix Int. Inc. also provides antibodies against several other GPCRs including orphan receptors. For a complete listing of all antibodies and lab services, please visit <http://fabgennix.com>.

### References:

1. Tran PB, Miller RJ. Nat Rev Neurosci. 2003 4:444-55
2. Segerer S. Am J Kidney Dis. 2003 41, :S15-8.
3. Ramjeesingh R, Leung R, Siu CH. FASEB J. 2003 May 8 [Epub ahead of print].
4. Feniger-Barish R, Yron I, Meshel T, Matityahu E, Ben-Baruch A. Biochemistry. 2003 18;42:2874-86.
5. Caulfield J, Fernandez M, Snetkov V, Lee T, Hawrylowicz C. Immunology. 2002, 105:155-62.

\* For users who may require large amounts of the products listed above, please inquire about bulk material discounts.  
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.