

For Research Use Only

# Anti-Mouse CXCR4/CD184 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98233-1-PBS



## Basic Information

Catalog Number:

98233-1-PBS

Size:

1mg, 2 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_009911.3

GeneID (NCBI):

12767

UNIPROT ID:

P70658

Full Name:

chemokine (C-X-C motif) receptor 4

Calculated MW:

40kDa

Purification Method:

Protein A purification

CloneNo.:

241956H2

## Applications

Tested Applications:

FC

Species Specificity:

mouse

## Background Information

C-X-C chemokine receptor type 4 (CXCR4, also known as CD184) is a widely expressed G protein-coupled seven-transmembrane receptor. CXCL12/SDF-1 is the biological ligand for CXCR4. The binding of CXCL12 to CXCR4 induces intracellular signaling through several divergent pathways initiating signals related to chemotaxis, cell survival and/or proliferation, increase in intracellular calcium, and gene transcription (PMID: 20484021). CXCR4 also functions as a coreceptor for HIV-1 entry (PMID: 9427609).

## Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

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

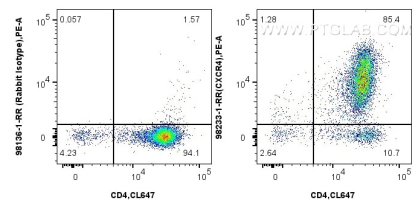
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)

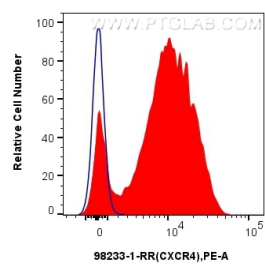
W: [ptglab.com](http://ptglab.com)

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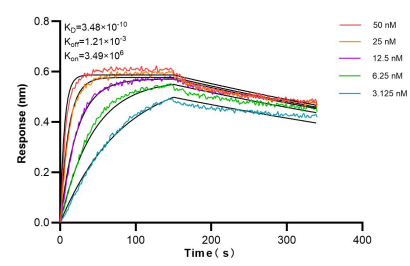
Selected Validation Data



1x10<sup>6</sup> mouse thymocytes were surface stained with 0.25 ug Anti-Mouse CXCR4/CD184 Rabbit Recombinant Antibody (98233-1-RR, Clone: 241956H2) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) (CL647-65104, Clone: GK1.5). Cells were not fixed. This data was developed using the same antibody



1x10<sup>6</sup> mouse thymocytes were surface stained with 0.25 ug Anti-Mouse CXCR4/CD184 Rabbit Recombinant Antibody (98233-1-RR, Clone: 241956H2)(red) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98233-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 98233-1-RR against Mouse CXCR4/CD184 were performed. The affinity constant is 0.348 nM.