

# **Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab)**

Recombinant Antibody Catalog # APR10638

### **Specification**

### Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab) - Product Information

Application Primary Accession Reactivity Clonality Isotype

Calculated MW

FC, E, FTA
P61073
Human, Mouse
Monoclonal
IgG4
150 KDa

## Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab) - Additional Information

Target/Specificity CXCR4 / CD184

**Endotoxin** 

< 0.001EU/ µg,determined by LAL method.

**Conjugation** Unconjugated

**Expression system** 

CHO Cell

### **Format**

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

## Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab) - Protein Information

## Name CXCR4

#### **Function**

Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation (PubMed:<a href="http://www.uniprot.org/citations/10452968" target="\_blank">10452968</a>, PubMed:<a href="http://www.uniprot.org/citations/18799424" target="\_blank">18799424</a>, PubMed:<a href="http://www.uniprot.org/citations/24912431" target="\_blank">24912431</a>, PubMed:<a href="http://www.uniprot.org/citations/28978524" target="\_blank">28978524</a>). Involved in the AKT signaling cascade (PubMed:<a href="http://www.uniprot.org/citations/24912431" target="\_blank">24912431</a>). Plays a role in regulation of cell migration, e.g. during wound healing (PubMed:<a href="http://www.uniprot.org/citations/28978524" target="\_blank">28978524</a>). Acts as a receptor for extracellular ubiquitin; leading to enhanced intracellular calcium ions and reduced cellular cAMP levels (PubMed:<a href="http://www.uniprot.org/citations/20228059" target=" blank">20228059</a>). Binds



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bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes (PubMed:<a href="http://www.uniprot.org/citations/11276205" target="\_blank">11276205</a>). Involved in hematopoiesis and in cardiac ventricular septum formation. Also plays an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells. Involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival (By similarity).

#### **Cellular Location**

Cell membrane; Multi-pass membrane protein. Cell junction. Early endosome. Late endosome. Lysosome. Note=In unstimulated cells, diffuse pattern on plasma membrane. On agonist stimulation, colocalizes with ITCH at the plasma membrane where it becomes ubiquitinated. In the presence of antigen, distributes to the immunological synapse forming at the T- cell-APC contact area, where it localizes at the peripheral and distal supramolecular activation cluster (SMAC)

#### **Tissue Location**

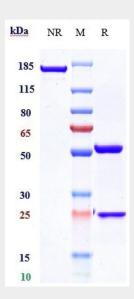
Expressed in numerous tissues, such as peripheral blood leukocytes, spleen, thymus, spinal cord, heart, placenta, lung, liver, skeletal muscle, kidney, pancreas, cerebellum, cerebral cortex and medulla (in microglia as well as in astrocytes), brain microvascular, coronary artery and umbilical cord endothelial cells Isoform 1 is predominant in all tissues tested

#### Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab) - Protocols

Provided below are standard protocols that you may find useful for product applications.

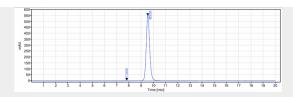
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab) - Images

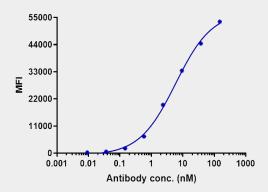


Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%





The purity of Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab)is more than 99.48% ,determined by SEC-HPLC.



Human CXCR4 Romas cells were stained with Anti-CXCR4 / CD184 Reference Antibody (ulocuplumab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC704= $5.915\,\mathrm{nM}$