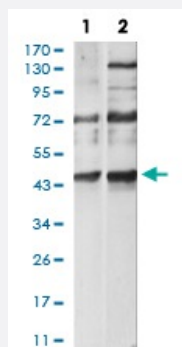


# CXCR3 monoclonal antibody, clone 5C10B3

Catalog # MAB17607

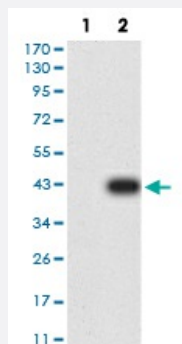
Size 100 ug

## Applications



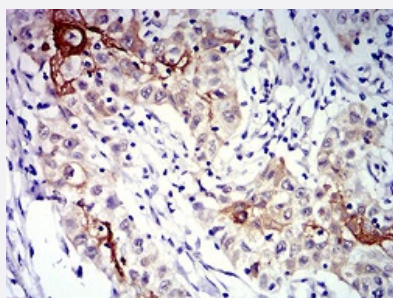
### Western Blot (Cell lysate)

Western blot analysis of (1) HeLa cell, (2) L-02 cell with CXCR3 monoclonal antibody.



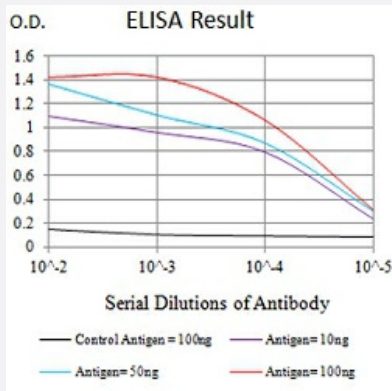
### Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) CXCR3-hlgGfc transfected HEK293 cell lysate.



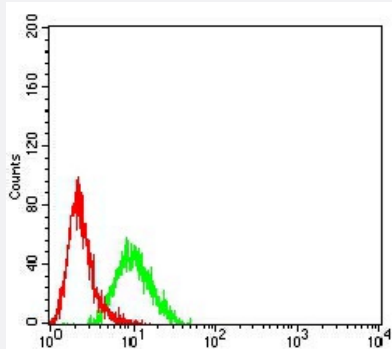
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded bladder cancer tissues with CXCR3 monoclonal antibody.



## Enzyme-linked Immunoabsorbent Assay

ELISA analysis of CXCR3 monoclonal antibody, clone 5C10B3.



## Flow Cytometry

Flow cytometric analysis of HL-60 cells with CXCR3 monoclonal antibody (green) and negative control (red).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against recombinant human CXCR3.
<b>Immunogen</b>	Recombinant protein corresponding to amino acid of human CXCR3 from <i>E. coli</i> .
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	40.7
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Isotype</b>	IgG1
<b>Recommend Usage</b>	ELISA (1:10000) Western Blot (1:500-1:2000) Immunocytochemistry Flow Cytometry (1:200-1:400) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.05% sodium azide).

**Storage Instruction**

Store at 4°C. For long term storage store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of (1) Hela cell, (2) L-02 cell with CXCR3 monoclonal antibody.

- Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) CXCR3-hlgGfc transfected HEK293 cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded bladder cancer tissues with CXCR3 monoclonal antibody.

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of CXCR3 monoclonal antibody, clone 5C10B3.

- Flow Cytometry

Flow cytometric analysis of HL-60 cells with CXCR3 monoclonal antibody (green) and negative control (red).

## Gene Info — CXCR3

**Entrez GeneID**[2833](#)**Gene Name**

CXCR3

**Gene Alias**

CD182, CD183, CKR-L2, CMKAR3, GPR9, IP10-R, Mig-R, MigR

**Gene Description**

chemokine (C-X-C motif) receptor 3

**Omim ID**[300574](#)**Gene Ontology**[Hyperlink](#)

**Gene Summary**

This gene encodes a G protein-coupled receptor with selectivity for three chemokines, termed IP10 (interferon-g-inducible 10 kDa protein), Mig (monokine induced by interferon-g) and I-TAC (interferon-inducible T cell a-chemoattractant). IP10, Mig and I-TAC belong to the structural subfamily of CXC chemokines, in which a single amino acid residue separates the first two of four highly conserved Cys residues. Binding of chemokines to this protein induces cellular responses that are involved in leukocyte traffic, most notably integrin activation, cytoskeletal changes and chemotactic migration. Inhibition by Bordetella pertussis toxin suggests that heterotrimeric G protein of the Gi-subclass couple to this protein. Signal transduction has not been further analyzed but may include the same enzymes that were identified in the signaling cascade induced by other chemokine receptors. As a consequence of chemokine-induced cellular desensitization (phosphorylation-dependent receptor internalization), cellular responses are typically rapid and short in duration. Cellular responsiveness is restored after dephosphorylation of intracellular receptors and subsequent recycling to the cell surface. This gene is prominently expressed in in vitro cultured effector/memory T cells, and in T cells present in many types of inflamed tissues. In addition, IP10, Mig and I-TAC are commonly produced by local cells in inflammatory lesion, suggesting that this gene and its chemokines participate in the recruitment of inflammatory cells. Therefore, this protein is a target for the development of small molecular weight antagonists, which may be used in the treatment of diverse inflammatory diseases. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

**Other Designations**

G protein-coupled receptor 9|IP10 receptor|Mig receptor|OTTHUMP00000070257|chemokine (C-X-C) receptor 3

**Pathway**

- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)

**Disease**

- [Asthma](#)
- [Bronchiolitis](#)
- [Coronary Artery Disease](#)
- [Genetic Predisposition to Disease](#)
- [Infant](#)
- [Respiratory Syncytial Virus Infections](#)