Product Information

Material Number: 562266
Alternate Name: CXCR3; Cxcr3; CXC-R3; CXCR-3; GPR9; IP-10 Receptor
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: CXCR3-173
Immunogen: Mouse CXCR3 peptide (amino acids 1–37)
Isotype: Armenian Hamster IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The CXCR3-173 monoclonal antibody specifically binds to mouse CD183, also known as CXCR3. CD183 is a seven transmembrane spanning, G protein-coupled chemokine receptor for CXC chemokines including CXCL9 (Mig), CXCL10 (IP-10) and CXCL11 (I-TAC). These chemokines are induced by inflammatory cytokines including IFN-γ, IFN-α/β, and TNF. CXCR3 is primarily expressed on activated/memory CD4+ and CD8+ T lymphocytes, Foxp3+ regulatory T cells, natural killer T (NKT) cells and mature NK cells. Binding of chemokines to CXCR3 induces integrin activation, cytoskeletal changes, and chemotactic migration of activated lymphocytes. CD183 has been reported to play important roles in T cell recruitment and immune responses in a number of inflammatory and autoimmune diseases. The CXCR3-173 antibody reportedly inhibited in vitro chemotactic responses to CXCL10 or CXCL11 significantly but not to CXCL9. When administered systemically to mouse hosts, the CXCR3-173 antibody reportedly prolonged cardiac and pancreatic islet cell allograft survival. In the presence of CXCR3 ligands, especially, CXCL10 and CXCL11, staining with the antibody can be significantly blocked.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Application Notes

Application

Flow cytometry Routinely Tested
**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
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<tbody>
<tr>
<td>553974</td>
<td>APC Hamster IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>A19-3</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>560507</td>
<td>V450 Rat Anti-Mouse CD62L</td>
<td>50 µg</td>
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<tr>
<td>555899</td>
<td>Lysing Buffer</td>
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</table>

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

**References**


