**DESCRIPTION**

**Species Reactivity** Human


**Source** Monoclonal Mouse IgG3 Clone # 84939

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** NS0 mouse myeloma cell line transfected with human ChemR23 Met1-Leu371

**Accession #** NP_004063

**Conjugate** Allophycocyanin

**Excitation Wavelength:** 620-650 nm

**Emission Wavelength:** 660-670 nm

**Formulation** Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Concentration (Sample)</th>
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<tr>
<td>Flow Cytometry</td>
<td>10 µL/10⁶ cells</td>
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**DATA**

**Flow Cytometry**

Detection of ChemR23 in Human Whole Blood Monocytes by Flow Cytometry. Human whole blood monocytes were stained with Mouse Anti-Human IL-3 R alpha/CD123 PE-conjugated Monoclonal Antibody (Catalog # FAB301P) and either (A) Mouse Anti-Human ChemR23 APC-conjugated Monoclonal Antibody (Catalog # FAB362A) or (B) Mouse IgG3 Allophycocyanin Isotype Control (Catalog # IC007A). View our protocol for Staining Membrane-associated Proteins.

**PREPARATION AND STORAGE**

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze.

- 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

ChemR23, also known as CMKLR1, is a 47-48 kDa 7-transmembrane member of the rhodopsin, or G-protein coupled receptor family 1. It has restricted expression on select cell types that, in primate, include adipocytes, astrocytes, endothelial cells, microglia/macrophages, chondrocytes, monocytes, osteocytes, NK cells, and plasmacytoid plus myeloid dendritic cells. In mouse, would studies show ChemR23 to be expressed by neutrophils and keratinocytes. The universally-agreed on ligand for ChemR23 is Chemerin, a 137 amino acid (aa) non-chemokine product of fibroblasts, platelets, adipocytes and endothelium. The Chemerin:ChemR23 system is suggested to promote chemotaxis for all ChemR23+ cells, and to induce angiogenesis via endothelial cell migration and MMP-2 and -9 activation. There is one alternative splice form that shows a deletion of aa 1 and 2 (NP_004063). Over the extracellular domains of ChemR23, human and mouse share 69% aa sequence identity.

**References:**

[References provided for specific information]

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**Human ChemR23 APC-conjugated Antibody**

Monoclonal Mouse IgG3 Clone # 84939

Catalog Number: FAB362A

100 Tests