

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ChemR23. Stains human ChemR23-transfected cells but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₃ 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.

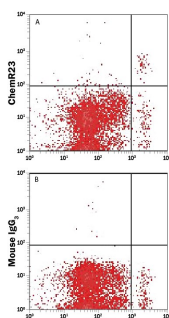
APPLICATIONS

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.

	Recommended Concentration	Sample
Flow Cytometry	10 μ L/10 ⁶ cells	See Below

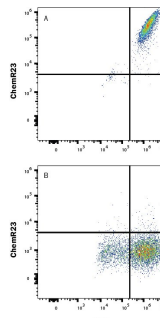
DATA

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 IgG₃Allophycocyanin Isotype Control (Catalog # [IC007A](#)). View our protocol for [Staining Membrane-associated Proteins](#).

Flow Cytometry



Detection of ChemR23 in HEK293 Human Cell Line Transfected with Human ChemR23 and eGFP by Flow Cytometry. HEK293 human cell line (A) transfected with human ChemR23 or (B) irrelevant protein and eGFP, were stained with Mouse Anti-Human ChemR23 APC-conjugated Monoclonal Antibody (Catalog # [FAB362A](#)). Quadrant markers were set based on Mouse IgG₃Allophycocyanin Isotype Control (Catalog # [IC007A](#), data not shown). Staining was performed using our [Staining Membrane-associated Proteins](#) protocol.

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. <ul style="list-style-type: none"> 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.