Human XCR1 Antibody
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF857

DESCRIPTION
Species Reactivity Human
Specificity Detects human XCR1 in direct ELISAs and Western blots.
Source Polyclonal Goat IgG
Purification Antigen Affinity-purified
Immunogen E. coli-derived recombinant human XCR1
Met1-Thr31, Ser9-Lys103, His168-His190, Phe251-Tyr267
Accession # P46094
Formulation Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.
*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

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
Western Blot                  0.1 μg/mL    Recombinant Human XCR1
Flow Cytometry                0.25 μg/10^6 cells See Below
Immunocytochemistry          5-15 μg/mL    Immersion fixed human peripheral blood mononuclear cells
CyTOF-ready                   Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

DATA

Flow Cytometry
Detection of XCR1 in Human Monocytes by Flow Cytometry. Human peripheral blood mononcytes were treated for 16 hours with 1 μg/mL LPS then stained with Goat Anti-Human XCR1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF857, filled histogram) or isotype control antibody (Catalog # AB108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).

Flow Cytometry
Detection of XCR1 in N60 Mouse Cell Line Transfected with Human XCR-1 and eGFP by Flow Cytometry. N60 mouse myeloma cell line transfected with human XCR-1 and eGFP was stained with either (A) Goat Anti-Human XCR1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF857) or (B) Normal Goat IgG Control (Catalog # AB108-C) followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE
Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.
Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND
XCR1, also known as GPR5 and lymphotactin/SCM-1 (single cysteine motif 1) receptor, is a 38 kDa member of the G-protein coupled receptor 1 family. It binds XCL1/lymphotactin/SCM-1α and XCL2/SCM-1β. In addition, human herpesvirus 8 (HHV8) encodes two viral chemokines vCCL2/vMIP-II and vCCL3/vMIP-III that function as an antagonist and a highly selective agonist, respectively, for XCR1. XCR1 is expressed on neutrophils, CD8+ T cells, NK cells, CD4+ T cells and B cells. Human XCR1 is a 333 amino acid (aa), 7-transmembrane molecule. It contains a 32 aa N-terminus that lacks glycosylation sites and a 42 aa C-terminal cytoplasmic tail. Over the extracellular regions used for immunization, human XCR1 shares 62%, 54% and 64% aa identity with canine, mouse and porcine XCR1, respectively.

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