

Human XCR1 PE-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1097A Catalog Number: FAB8571P 25 Tests, 100 Tests

Species Reactivity	Human		
Specificity	Detects human XCR1 in direct ELISAs.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 1097A		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	E. coli-derived recombinant human XCR1 Met1-Thr31, Ser89-Lys103, His168-His190, Phe251-Tyr267 Accession # P46094		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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.		

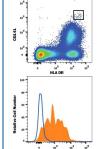
APPLICATIONS

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 μL/10 ⁶ cells	See Below

DATA





Detection of XCR1 in CD141* HLA-DR* Human Blood Monocytes by Flow Cytometry. Human peripheral blood monocytes were stained with (A) Mouse Anti-Human HLA-DR Fluorsecein-Conjugated Monoclonal Antibody (Catalog # FAB4869F), Mouse Anti-Human Thrombomodulin/BDCA-3 (CD141) APC-Conjugated Monoclonal Antibody (Catalog # FAB3947A) and (B) Rabbit Anti-Human XCR1 PE-conjugated Monoclonal Antibody (Catalog # FAB8571P, filled histogram) or isotype control antibody (Catalog # IC105P, open histogram). 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

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-1 α and XCL2/SCM-1 β . In addition, Human Herpes Virus 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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