

DESCRIPTION

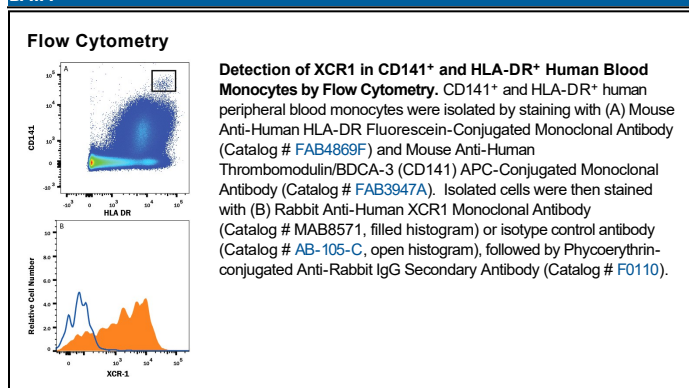
Species Reactivity	Human
Specificity	Detects human XCR1 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1097A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human XCR1 Met1-Thr31, Ser89-Lys103, His168-His190, Phe251-Tyr267 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
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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. <ul style="list-style-type: none"> • 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 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.