

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse (rm) CXCR5 in direct ELISAs. In this format, no cross-reactivity with rmCXCR7 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 614641
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCR5 Met1-Pro57 Accession # Q04683
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

Flow Cytometry

Detection of CXCR5 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse B220/CD45R APC-conjugated Monoclonal Antibody (Catalog # [FAB1217A](#)) and either (A) Rat Anti-Mouse CXCR5 PE-conjugated Monoclonal Antibody (Catalog # [FAB6198P](#)) or (B) Rat IgG_{2A} Phycoerythrin Isotype Control (Catalog # [IC006P](#)). View our protocol for [Staining Membrane-associated Proteins](#).

Flow Cytometry

Detection of CXCR5 in Mouse T Follicular Helper Cells by Flow Cytometry. Mouse T follicular helper cells from immunized Balb/c mice were stained with Rat Anti-Mouse CD4 Alexa Fluor® 405-conjugated Monoclonal Antibody (Catalog # [FAB554V](#)) and either (A) Rat Anti-Mouse CXCR5 PE-conjugated Monoclonal Antibody (Catalog # [FAB6198P](#)) or (B) Rat IgG_{2A} Phycoerythrin Isotype Control (Catalog # [IC006P](#)). 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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CXCR5 (CXC chemokine receptor 5; also BLR-1, NLR and CD185) is a 55-60 kDa member of the G-protein coupled receptor 1 family. It is expressed on select cell types, including granule and Purkinje cell neurons, embryonic CD4⁺ CD3⁻ IL-7Rα⁺ precursor cells, B cells and follicular T helper cells. CXCR5 selectively binds BLC/CXCL13. This appears to both promote embryonic lymph node development and, in the adult, direct expressing cells to positions that optimize antigen presentation and antibody production. Mouse CXCR5 is a 7-transmembrane glycoprotein that is 374 amino acids (aa) in length. It contains a 57 aa N-terminal extracellular region plus a 47 aa C-terminal cytoplasmic domain. Over aa 1-57, mouse CXCR5 shares 84% and 47% aa identity with rat and human CXCR5, respectively.