

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse CXCR5 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse CXCR7 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	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10 ⁶ cells	Mouse splenocytes and T follicular helper cells

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.

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