Rat CXCR3 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 868013

Catalog Number: FAB8109G
100 TESTS

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat CXCR3 in direct ELISAs. Stains rat CXCR3 transfected cells but not irrelevant transfectants.
Source	Monoclonal Mouse IgG_{2B} Clone # 868013
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with rat CXCR3 Accession # Q9J119
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

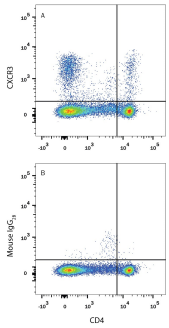
APPLICATIONS

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	5 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CXCR3 in Rat Splenocytes by Flow Cytometry. Rat splenocytes were stained with anti-rat CD4 APC-conjugated antibody and either (A) Mouse Anti-Rat CXCR3 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB8109G) or (B) Mouse IgG_{2B} Alexa Fluor 488 Isotype Control (Catalog # IC0041G). 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

CXCR3, also known as CD183, is an approximately 41 kDa (predicted) 7-transmembrane spanning receptor for the chemokines CXCL9, CXCL10, and CXCL11. It is expressed on activated T cells, B cells, and NK cells during inflammation. It is additionally upregulated on solid tumor cells, tumor endothelium, and cancer stem cells. CXCR3 plays a role in leukocyte recruitment to sites of inflammation. It also contributes to Th1 biased responses during autoimune diseases rheumatoid arthritis, systemic erythematosis, and type 1 diabetes. Rat CXCR3 shares 86% and 96% amino acid sequence identity with human and mouse CXCR3, respectively.

PRODUCT SPECIFIC NOTICES

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