

Mouse CXCR4 Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 247506 Catalog Number: FAB21651G

100 µg

DESCRIPTION						
Species Reactivity	Mouse					
Specificity	Detects mouse CXCR4 transfectants. Does not stain irrelevant transfectants.					
Source	Monoclonal Rat IgG _{2B} Clone # 247506					
Purification	Protein A or G purified from hybridoma culture supernatant					
Immunogen	Y3 rat myeloid cell line transfected with mouse CXCR4 Met1-Ser359 Accession # P70658					
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.					
	*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.					

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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.

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	Recommended Concentration	Sample	
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Mouse thymocytes	

PREPARATION AND STORAGE

Shippina	. 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

CXCR4, also known as CD184, is a G-protein-linked seven transmembrane spanning receptor that binds stromal cell-derived factor-1 (SDF-1). CXCR4 acts as a co-factor for T-cell tropic HIV-1 and -2 viral entry into cells. While primarily a membrane protein, CXCR4 undergoes trafficking and internalization in response to stimulation with phorbol esters and ligand (1). Cytoplasmic and nuclear localization of CXCR4 has been observed in colorectal and renal carcinomas (2,3) and it has been used as the basis of prognosis and metastatic state (3,4,5).

References:

- 1. Orsini, M.J. et al. (1999) J. Biol. Chem. 274:31076.
- 2. Zagzag, D. et al. (2005) Cancer Res. 65:6178.
- 3. Speetjens, F.M. et al. (2009) Cancer Microenvironment 2:1.
- 4. Wang, L. et al. (2009) Oncology Reports 22:1333
- 5. Amara, S. et al. (2015) Cancer Biomark. 15:869.

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