RD SYSTEMS a biotechne brand

Mouse CXCR4 Alexa Fluor® 750-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 247506 Catalog Number: FAB21651S 100 µg

DESCRIPTION Species Reactivity Mouse Specificity Detects mouse CXCR4 transfectants. Does not stain irrelevant transfectants Source Monoclonal Rat IgG2B 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 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

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 thymocytes

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

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 cofactor 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.

PRODUCT SPECIFIC NOTICES

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