

DESCRIPTION

Species Reactivity	Feline
Specificity	Detects feline CXCR4. Stains feline CXCR4 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 374606
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with feline CXCR4 Met1-Ser353 Accession # P56498
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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	Feline peripheral blood mononuclear 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

CXCR4, also known as fusin and CD184, is a 7TM G protein-linked chemokine receptor. CXCR4 is expressed on B cells, monocytes, CD4⁺ T cells, colonic epithelial cells, and astrocytes and binds SDF-1/CXCL12. CXCR4 is up-regulated on mammary tumors. CXCR4, in cooperation with CD134 and heparan sulfate proteoglycans, functions as a co-receptor for feline immunodeficiency virus (FIV) entry into cells. Feline CXCR4 shares 97%, 95%, 88%, and 90% aa sequence identity with canine, human, mouse, and rat CXCR4, respectively.

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