

DESCRIPTION	
<b>Species Reactivity</b>	Feline
<b>Specificity</b>	Detects feline CXCR4. Stains feline CXCR4 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 374606
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	HEK293 human embryonic kidney cell line transfected with feline CXCR4 Met1-Ser353 Accession # P56498
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Feline peripheral blood mononuclear cells

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**BACKGROUND**

CXCR4, also known as fusin, is a 7TM G protein-linked chemokine receptor. CXCR4 is expressed on B cells, monocytes, CD4<sup>+</sup> 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.

**PRODUCT SPECIFIC NOTICES**

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