

#### 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>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

#### 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	Feline peripheral blood mononuclear cells
<b>Immunocytochemistry</b>	8-25 µg/mL	Immersion fixed feline peripheral blood mononuclear cells
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### BACKGROUND

CXCR4, also known as fusin and CD184, 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.