

#### DESCRIPTION

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|---------------------------|--|
| <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<br>Met1-Ser353<br>Accession # P56498   |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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.

|                       | <b>Recommended Concentration</b> | <b>Sample</b>                             |
|-----------------------|----------------------------------|---|
| <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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