

## DESCRIPTION

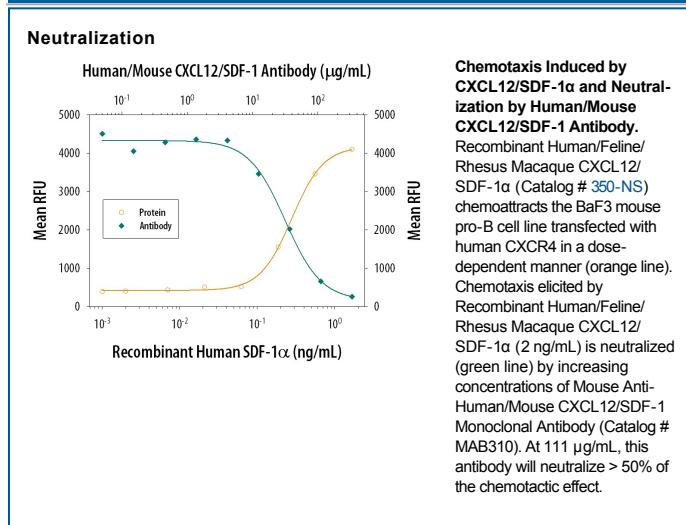
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse CXCL12/SDF-1 $\alpha$ and human CXCL12/SDF-1 $\beta$ .
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 79014
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CXCL12/SDF-1 $\alpha$ Lys22-Lys89 Accession # Q6ICW0
<b>Endotoxin Level</b>	<0.10 EU per 1 $\mu$ g of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m 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>Neutralization</b>	Measured by its ability to neutralize CXCL12/SDF-1 $\alpha$ -induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR4. At 111 $\mu$ g/mL, this antibody will neutralize > 50% of the chemotactic effect due to 2 ng/mL Recombinant Human/Feline/Rhesus Macaque CXCL12/SDF-1 $\alpha$ .
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## DATA



## 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

CXCL12, also known as SDF-1 (stromal cell-derived factor 1) and PBSF (Pre-B cell growth stimulatory factor), is a member of the CXC chemokine superfamily. Two alternatively spliced mRNAs encode CXCL12 $\alpha$  (89 aa residues) and CXCL12 $\beta$  (93 aa residues) that differ by the addition of 4 amino acids at the carboxy-terminus. Human and mouse CXCL12 are highly conserved. Mature human and mouse CXCL12 differ only by 1 amino acid.