

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CXCR2/IL-8 RB transfected NS0 cells but not the parental cell line. It does not cross-react with CXCR1 (IL-8 RA).
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 48311
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human CXCR2/IL-8 RB Met1-Leu355 Accession # AAB25880
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<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 as a 0.2 µm filtered solution in PBS.

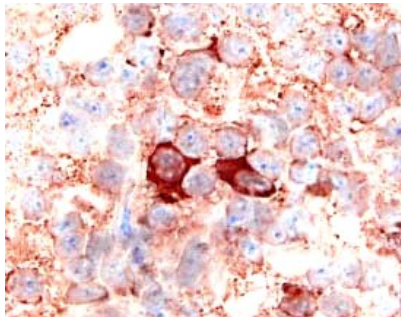
## APPLICATIONS

**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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	Human whole blood granulocytes
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>Neutralization</b>	Measured by its ability to neutralize CXCL1/GROα/KC/CINC-1-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose (ND <sub>50</sub> ) is typically 1-5 µg/mL in the presence of 5 ng/mL Recombinant Human CXCL1/GROα/KC/CINC-1.	

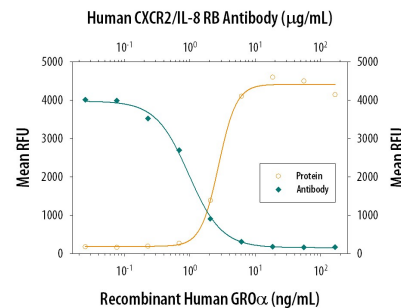
## DATA

### Immunohistochemistry



**CXCR2/IL-8 RB in Human Lymph Node.** CXCR2/IL-8 RB was detected in immersion fixed paraffin-embedded sections of human lymph node using 15 µg/mL Human CXCR2/IL-8 RB Monoclonal Antibody (Catalog # MAB331) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-AEC Cell & Tissue Staining Kit (red; Catalog # CTS003) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

### Neutralization



**Chemotaxis Induced by CXCL1/GROα and Neutralization by Human CXCR2/IL-8 RB Antibody.** Recombinant Human CXCL1/GROα (Catalog # 275-GR) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR2 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CXCL1/GROα (5 ng/mL) is neutralized (green line) by increasing concentrations of Human CXCR2/IL-8 RB Monoclonal Antibody (Catalog # MAB331). The ND<sub>50</sub> is typically 1-5 µg/mL.

## 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

CXCR2, also known as IL-8 RB, is a G protein-coupled chemokine receptor expressed on neutrophils. It binds IL-8, GROα, GROβ, GROγ, NAP-2, and ENA-78.