Human CXCR2/IL-8 RB Antibody

Monoclonal Mouse IgG_{2A} Clone # 48311

Catalog Number: MAB331

DESCRIPTION

Species Reactivity	Human
Specificity	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).
Source	Monoclonal Mouse IgG_{2A} Clone # 48311
Purification	Protein A or G purified from ascites
Immunogen	NS0 mouse myeloma cell line transfected with human CXCR2/IL-8 RB Met1-Leu355 Accession # AAB25880
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	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.

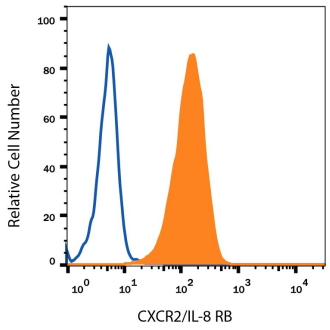
APPLICATIONS

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.*

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10^6 cells	See Below
Immunohistochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Neutralization	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_{50}) is typically 1-5 µg/mL in the presence of 5 ng/mL Recombinant Human CXCL1/GROα/KC/CINC-1.	

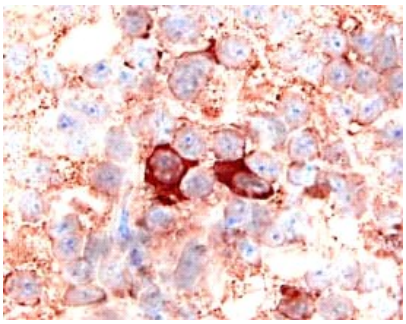
DATA

Flow Cytometry



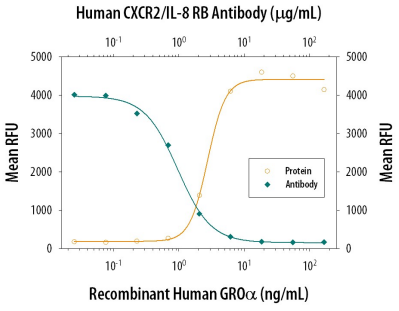
Detection of CXCR2/IL-8 RB in Human Blood Granulocytes by Flow Cytometry. Human peripheral blood granulocytes were stained with Mouse Anti-Human CXCR2/IL-8 RB Monoclonal Antibody (Catalog # MAB331, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B).

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 Mouse Anti-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 Mouse Anti-Human CXCR2/IL-8 RB Monoclonal Antibody (Catalog # MAB331). The ND_{50} is typically 1-5 µg/mL.

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Human CXCR2/IL-8 RB Antibody

Monoclonal Mouse IgG_{2A} Clone # 48311

Catalog Number: MAB331

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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