

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CXCR1/IL-8 RA transfectants but not the parental cell line.
Source	Recombinant Monoclonal Mouse IgG _{2A} Clone # 42705R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CXCR1/IL-8 RA Met1-Leu350 Accession # AAA59159
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.

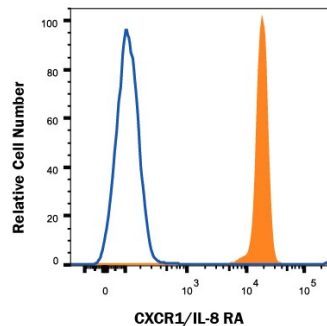
APPLICATIONS

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	0.5-25 µg/mL	See Below
CyTOF-reported	Cheng, Y. <i>et al.</i> (2016) J. Immunol. 196 : 924. 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 CXCL8/IL-8-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR1. The Neutralization Dose (ND ₅₀) is typically 0.4-2.0 µg/mL in the presence of 1 ng/mL Recombinant Human CXCL8/IL-8.	

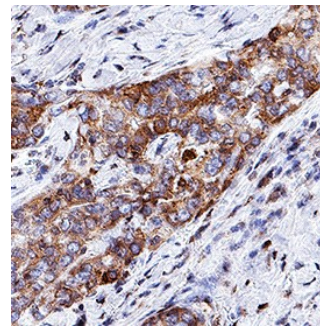
DATA

Flow Cytometry



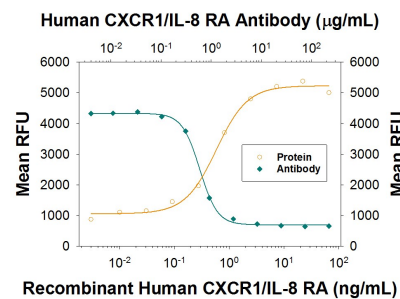
Detection of CXCR1/IL-8 RA in Human Blood Granulocytes by Flow Cytometry. Human peripheral blood granulocytes were stained with Mouse Anti-Human CXCR1/IL-8 RA Monoclonal Antibody (Catalog # MAB330R, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by PE-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B). View our protocol for [Staining Membrane-associated Proteins](#).

Immunohistochemistry



CXCR1/IL-8 RA in Human Stomach Cancer Tissue. CXCR1/IL-8 RA was detected in immersion fixed paraffin-embedded sections of human stomach cancer tissue using Mouse Anti-Human CXCR1/IL-8 RA Monoclonal Antibody (Catalog # MAB330R) at 0.5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and cell surfaces in cancer cells. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

Neutralization



Chemotaxis Induced by CXCL8/IL-8 and Neutralization by Human CXCR1/IL-8 RA Antibody. Recombinant Human CXCL8/IL-8 (Catalog # 208-IL) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR1 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 CXCL8/IL-8 (1 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human CXCR1/IL-8 RA Monoclonal Antibody (Catalog # MAB330R). The ND₅₀ is typically 0.4-2.0 µg/mL.

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

The human C-X-C chemokine IL-8 is a potent neutrophil chemotactic and activating factor. Two distinct G protein-linked cell surface receptors, known as IL-8 RA (type I or CXCR1) and IL-8 RB (type II or CXCR2), can interact with the IL-8 molecule. These two receptors share 77% amino acid homology. CXCR1 expression has been documented on neutrophils, monocytes, and a small population of T cells.