Human CCR8 Antibody

Monoclonal Rat IgG_{2B} Clone # 191704

Catalog Number: MAB1429

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCR8. Neutralizes the bioactivity of human CCR8 and specifically stains human CCR8-transfected cell lines but not with the parent cell lines.
Source	Monoclonal Rat IgG_{2B} Clone # 191704
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	BaF3 mouse pro-B cell line transfected with human CCR8 Met1-Leu355 Accession # P51685
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.

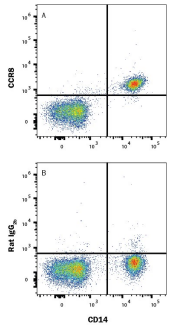
APPLICATIONS

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
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 CCL1/I-309/TCA-3-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR8. The Neutralization Dose (ND_{50}) is typically 0.01-0.05 µg/mL in the presence of 20 ng/mL Recombinant Human CCL1/I-309/TCA-3.	

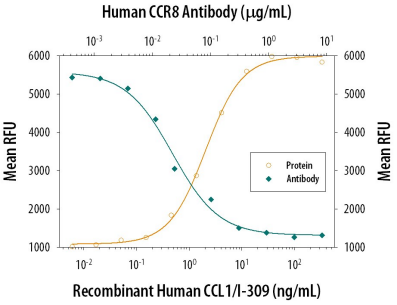
DATA

Flow Cytometry



Detection of CCR8 in Human Blood by Flow Cytometry. Human peripheral blood cells were stained with (A) Rat Anti-Human CCR8 Monoclonal Antibody (Catalog # MAB1429) or (B) isotype control antibody (Catalog # MAB0061) followed by anti-Rat IgG APC-conjugated Secondary Antibody (Catalog # F0113) and Mouse anti-Human CD14 PE-conjugated Monoclonal Antibody (Catalog # FAB3832P). View our protocol for Staining Membrane-associated Proteins.

Neutralization



Chemotaxis Induced by CCL1/I-309 and Neutralization by Human CCR8 Antibody. Recombinant Human CCL1/I-309 (Catalog # 272-I) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR8 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 CCL1/I-309 (20 ng/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Human CCR8 Monoclonal Antibody (Catalog # MAB1429). The ND_{50} is typically 0.01-0.05 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

CCR8 (C-C chemokine receptor 8; previously called CKR-L1 or TER1 and designated CD198) is a 41-43 kDa member of the GPCR 1 family of transmembrane proteins. CCR8 is expressed on vascular smooth muscle cells, monocytes, eosinophils, peritoneal macrophages, thymocytes, CD8+ T cells, Langerhans cells and neurons. CCL1/TCA3 and vMIP-1 are known agonists for CCR8. Human CCR8 is a 7-transmembrane protein that is 355 amino acids (aa) in length. It contains a 35 aa N-terminal extracellular domain plus a 51 aa C-terminal cytoplasmic tail. Over aa sequences 1-33 and 92-105 collectively, human and mouse CCR8 share 64% aa sequence identity.

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