

DESCRIPTION

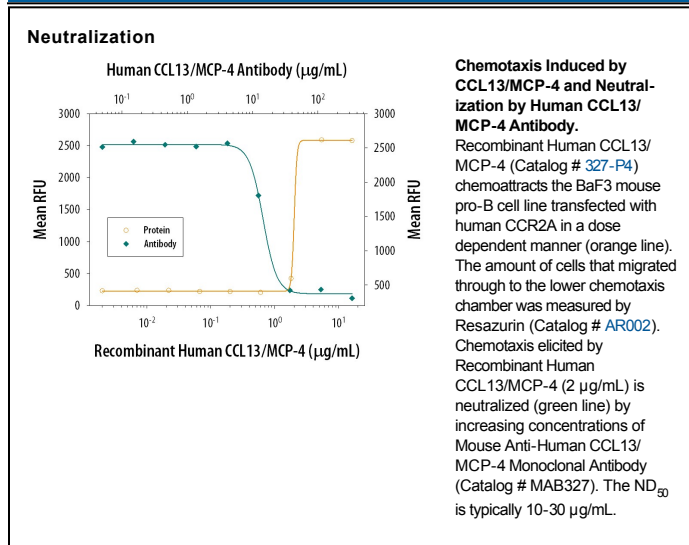
Species Reactivity	Human
Specificity	Detects human CCL13/MCP-4 in ELISAs. In sandwich immunoassays, less than 1% cross-reactivity with recombinant human (rh) CCL2 is observed and no significant cross-reactivity or interference with rhCCL5, 7, 8, 11, 24, recombinant mouse CCL2, 5, 7, 11 or 12 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 73506
Purification	Protein A or G purified from ascites
Immunogen	<i>E. coli</i> -derived recombinant human CCL13/MCP-4 Gln24-Thr98 Accession # Q99616.1
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 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
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	A549 human lung carcinoma cell line treated with recombinant human IL-1β, fixed with paraformaldehyde and permeabilized with saponin
Human CCL13/MCP-4 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human CCL13/MCP-4 Antibody (Catalog # MAB327)
ELISA Detection Standard	0.1-0.4 µg/mL	Human CCL13/MCP-4 Biotinylated Antibody (Catalog # BAF327) Recombinant Human CCL13/MCP-4 (Catalog # 327-P4)
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 CCL13/MCP-4-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR2A. The Neutralization Dose (ND ₅₀) is typically 10-30 µg/mL in the presence of 2 µg/mL Recombinant Human CCL13/MCP-4.	

DATA



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. <ul style="list-style-type: none"> ● 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

CCL13, also known as Monocyte Chemoattractant Protein-4 (MCP-4), is a CC chemokine that acts as a chemoattractant for monocytes, eosinophils and T cells and as an activator of basophils. Human CCL13 cDNA encodes a 98 amino acid residue precursor protein with a 23 amino acid residue hydrophobic signal peptide that is cleaved to yield an 8 kDa, 75 aa mature CCL13. Mature CCL13 lacks any potential N-glycosylation sites and shares a pyroglutamate proline motif with other human MCP proteins. Human CCL13 is most homologous to MCP-1, 3 and Eotaxin, exhibiting approximately 65-66% amino acid sequence identity. CCL13 mRNA is expressed by a number of activated cell types, including endothelial cells, macrophages, bronchial epithelium and type II alveolar cells, and perhaps lymphocytes. The bioactivities of CCL13 are mediated by the CC chemokine receptors CCR-2 and CCR-3.