

DESCRIPTION

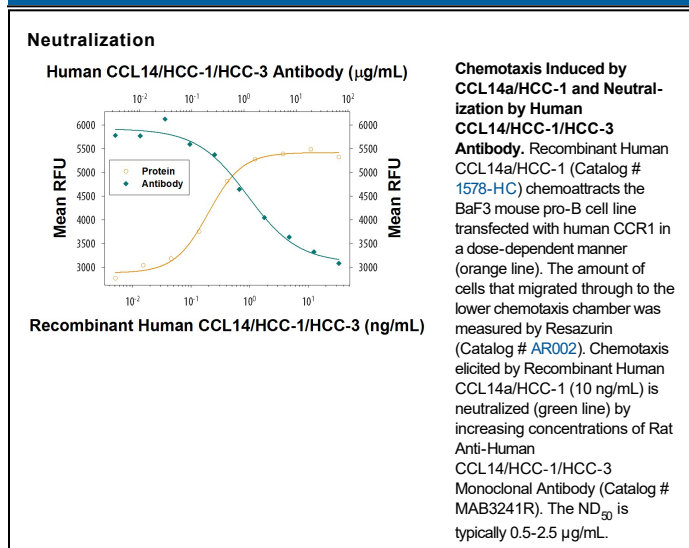
Species Reactivity	Human
Specificity	Detects human CCL14/HCC-1/HCC-3 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rat IgG _{2A} Clone # 256409R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CCL14/HCC-1/HCC-3 Thr20-Asn109 Accession # NP_116738
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
Western Blot	1 µg/mL	Recombinant Human CCL14a/HCC-1 aa 20-93 (Catalog # 324-HC)
Human CCL14a/HCC-1 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human CCL14/HCC-1/HCC-3 Antibody (Catalog # MAB3241R)
ELISA Detection	0.1-0.4 µg/mL	Human CCL14a/HCC-1 Biotinylated Antibody (Catalog # BAF324)
Standard		Recombinant Human CCL14a/HCC-1 aa 20-93 (Catalog # 324-HC)
Neutralization	Measured by its ability to neutralize CCL14a/HCC-1-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR1. The Neutralization Dose (ND ₅₀) is typically 0.5-2.5 µg/mL in the presence of 10 ng/mL Recombinant Human CCL14a/HCC-1 aa 28-93.	

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

CCL14 is a chemokine that promotes chemotaxis of T cells, monocytes, and eosinophils. It occurs in two isoforms resulting from differential mRNA splicing. Following cleavage of a 19 amino acid signal peptide, mature CCL14a (aa 20-93) is a 74 amino acid peptide that is also known as HCC-1 (Hemofiltrate CC Chemokine-1). It is a weak CCR1 agonist, however, an 8 amino acid N-terminal truncation (aa 28-93) allows potent signaling through CCR1 and CCR5. CCL14b, also known as HCC-3, is a 90 amino acid peptide (aa 20-109) resulting from the insertion of 16 amino acids between residues 7 and 8 of CCL14a.

