Human CCL14/HCC-1/HCC-3 Antibody

Monoclonal Rat IgG_{2A} Clone # 256409

Catalog Number: MAB3241

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL14/HCC-1/HCC-3 in ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human CCL1, 2, 3, 5, 7, 8, 11, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, recombinant mouse CCL2, 3, 4, 6, 7, 9, 11, 12, 19, 20, 21, 22, 24, 25, or recombinant rat CCL20 is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 256409
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-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 as a 0.2 µm filtered solution in PBS.

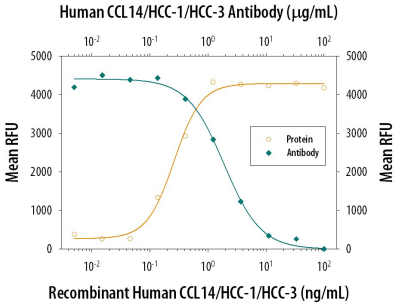
APPLICATIONS

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 # MAB3241)
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

Neutralization



Chemotaxis Induced by CCL14a/HCC-1 and Neutralization by Human CCL14/HCC-1/HCC-3 Antibody. Recombinant Human CCL14a/HCC-1 (Catalog # 1578-HC) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR1 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 CCL14a/HCC-1 (10 ng/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Human CCL14/HCC-1/HCC-3 Monoclonal Antibody (Catalog # MAB3241). The ND_{50} is typically 0.5-2.5 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.

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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.

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