

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL14a/HCC-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots (non-reducing conditions), less than 5% cross-reactivity with recombinant human (rh) MCP-2, rhMCP-3, recombinant mouse (rm) C10, and rmMIP-1β
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CCL14a/HCC-1 Thr20-Asn93 Accession # Q16627
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HCC-1 (Hemofiltrate CC Chemokine-1) was originally isolated from the hemofiltrate of human patients with chronic renal failure (1). It belongs to the CC chemokine superfamily and has been designated CCL14a. HCC-1/CCL14a cDNA encodes a 93 amino acid (aa) residue precursor with a 19 aa signal peptide that is cleaved to form the 74 aa secreted protein (aa 20-93). By alternative splicing, a second longer isoform named HCC-3/CCL14b, which includes sequences from exon 3, also exists (2). HCC-1/CCL14a is expressed constitutively in various normal tissues including spleen, liver, muscle, gut and bone marrow. It circulates at nanomolar concentrations in human plasma. Different post-translationally modified HCC-1/CCL14a, including O-glycosylated and N-terminally truncated variants of HCC-1/CCL14a, have been identified (3, 4). Whereas the 74 aa peptide is a weak CCR1 agonist, the proteolytically processed, truncated HCC-1/CCL14a (aa 28-93) is a highly potent agonist of CCR1, CCR5 and to a lesser extent, CCR3. HCC-1/CCL14a (aa 28-93) promotes chemotaxis of T lymphocytes, monocytes and eosinophils, and inhibits infection of M-tropic human immunodeficiency virus type 1. Activation of the HCC-1/CCL14a precursor to active peptide is mediated by the urokinase type plasminogen activator or plasmin (5).

PRODUCT SPECIFIC NOTICES

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