

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	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
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CCL14a/HCC-1 Thr20-Asn93 Accession # Q16627
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	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.

<b>Neutralization</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	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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