

DESCRIPTION

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| 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 |
| Conjugate | Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

| | Recommended Concentration | Sample |
|---|----------------------------------|--|
| Intracellular Staining by Flow Cytometry | 0.25-1 µg/10 ⁶ cells | A549 human lung carcinoma cell line treated with recombinant human IL-1β, fixed with paraformaldehyde and permeabilized with saponin |

PREPARATION AND STORAGE

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| 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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied. |

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.

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