

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CCL18/PARC in ELISAs and Western blots. In ELISAs, does not cross-react with recombinant human CCL3, 4, 14, 15, 23, recombinant mouse (rm) CCL3, rmCCL4, recombinant viral (rv) MIP-I or rvMIP-II.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 64507
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CCL18/PARC Ala21-Ala89 Accession # P55774.1
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Human monocyte-derived dendritic cells treated with Recombinant Human IL-4 (Catalog # 204-IL), Recombinant Human GM-CSF (Catalog # 215-GM), Recombinant Human TNF-α (Catalog # 210-TA), Recombinant Human IL-1β/IL-1F2 (Catalog # 201-LB), and LPS, fixed with paraformaldehyde and permeabilized with saponin

#### 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

CCL18, also known as alternative macrophage activation-associated CC chemokine (AMAC)-1, macrophage inflammatory protein 4 (MIP-4), and dendritic cell chemokine (DC-CK1), is a novel CC chemokine that is highly homologous to MIP-1α (61% amino acid (aa) sequence identity). CCL18 cDNA encodes an 89 aa residue precursor protein with a 20 aa putative signal peptide that is cleaved to generate a 69 aa residue mature protein which lacks potential glycosylation sites. *In vitro*, CCL18 mRNA expression is induced in alternatively activated macrophages by Th2 cytokines such as IL-4, IL-10, and IL-13, and inhibited by IFN-γ. CCL18 mRNA is also expressed by GM-CSF/IL-4-induced monocyte-derived dendritic cells. *In vivo*, CCL18 is highly expressed in lung and placenta but is not expressed in epidermal Langerhans cells. Recombinant CCL18 has been shown to chemoattract naive T cells but not monocytes or neutrophils.

#### References:

1. Adema, G. *et al.* (1997) *Nature* **387**:713.
2. Kodelja, V. *et al.* (1998) *J. Immunol.* **160**:141.

#### PRODUCT SPECIFIC NOTICES

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