

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG ₁ Clone # 64507
Purification	Protein A or G purified from ascites
Immunogen	<i>E. coli</i> -derived recombinant human CCL18/PARC Ala21-Ala89 Accession # P55774.1
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
Formulation	Supplied 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.

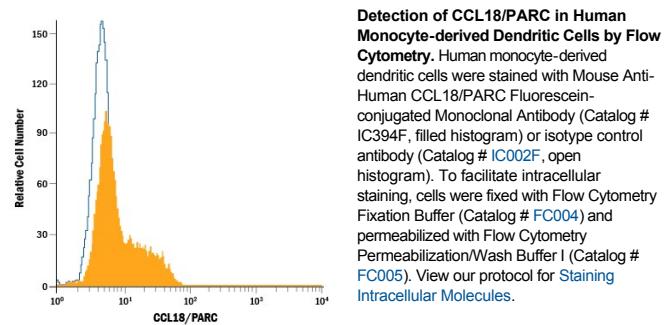
APPLICATIONS

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	10 µL/10 ⁶ cells	See Below

DATA

Intracellular Staining by Flow Cytometry



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 1 (AMAC-1), Macrophage Inflammatory Protein 4 (MIP-4), and Dendritic Cell Chemokine 1 (DC-CK1), is a novel CC chemokine that is highly homologous to MIP-1 α (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.