

DESCRIPTION

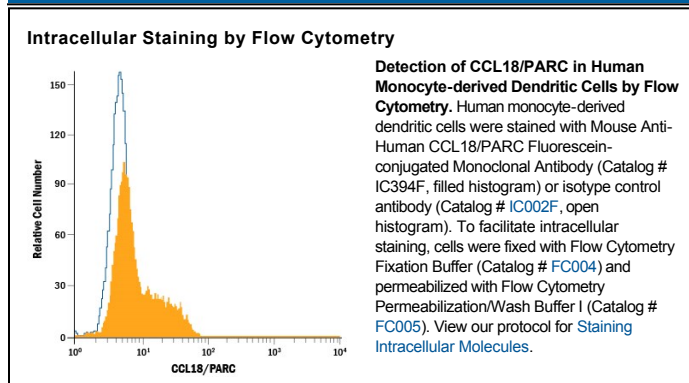
Species Reactivity	Human
Specificity	Detects human CCL18/PARC in ELISAs and Western blots. In ELISAs, does not cross-react with recombinant human CCL3, 4, 14, 15, 23, recombinant mouse (rm) CCL3, rmCCL4, recombinant viral (rv) MIP-I or rvMIP-II.
Source	Monoclonal Mouse IgG ₁ Clone # 64507
Purification	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



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-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.