Human CCL18/PARC
Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 64507

Catalog Number: IC394U
100 µg

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	*E. coli*-derived recombinant human CCL18/PARC Ala21-Ala89 Accession # P55774.1
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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	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.

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bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449