Mouse CCL2/JE/MCP-1
Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 123616R

Catalog Number: FAB4791G

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL2 in direct ELISAs.
Source	Monoclonal Rat IgG_{2B} Clone # 123616R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant mouse CCL2 Gln24-Arg96 Accession # P10148
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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
Flow Cytometry	0.25-1 µg/10^6 cells	Mouse splenocytes treated with LPS and monensin

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

Mouse CCL2 is a member of the β (C-C) subfamily of chemokines. The mouse *CCL2* gene was initially identified as a platelet-derived growth factor-inducible gene in mouse fibroblasts. Mouse CCL2 cDNA encodes a 148 amino acid (aa) residue with a putative 23 aa signal peptide that is cleaved to generate the mature protein. Mouse CCL2 shares 82% amino acid sequence identity with rat CCL2. Mouse CCL2 also shares 55% amino acid sequence identity with human MCP-1. Compared to human MCP-1, mouse CCL2 has a 49 aa residue extension at the carboxy-terminus. When a DNA sequence encoding the 125 aa residue of the mature CCL2 protein was expressed in *E. coli* at R&D Systems, the purified protein had the predicted N-terminus but a mass of 8525 Da. The truncation of most of the C-terminal extension could be due either to purification artifact or to post-translational modification. The truncated recombinant CCL2 has a potency similar to that of human MCP-1 in the monocyte chemotaxis assay. Mouse CCL2 has full activity on human cells while human MCP-1 has limited activity on mouse cells.

References:

1. Rollins, B.J. *et al.* (1988) Proc. Natl. Acad. Sci. USA **85**:3738.
2. Gu, L. *et al.* (1999) Chem. Immunol. **72**:7.
3. Luini, W. *et al.* (1994) Cytokine **6**:28.

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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