

For Research Use Only

FcZero-rAb® PE Anti-Human MCP-1/CCL2 Rabbit Recombinant Antibody

Catalog Number: PE-FcA98044



Basic Information

Catalog Number:

PE-FcA98044

Size:

100 tests, 5 ul/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG31375

GenBank Accession Number:

BC009716

GeneID (NCBI):

6347

UNIPROT ID:

P13500

Full Name:

chemokine (C-C motif) ligand 2

Calculated MW:

99 aa, 11 kDa

Purification Method:

Protein A purification

CloneNo.:

230270A7

Recommended Dilutions:

FC (Intra): 5 ul per 10⁶ cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra): PMA, LPS and Brefeldin A treated THP-1 cells,

Background Information

Monocyte chemoattractant protein-1 (MCP-1), also known as CCL2, is a chemokine that regulates monocyte and macrophage migration and infiltration. In addition to monocytes and macrophages, MCP-1 can also serve as a chemoattractant for T cells, B cells, NK cells, dendritic cells, and neutrophils. MCP-1 expression is typically induced by the release of inflammatory cytokines and other stimuli from sites of tissue injury and infection. It in turn promotes the extravasation of immune cells across blood vessel walls and their subsequent infiltration of the infection site. It may also play a role in macrophage polarization as well as the differentiation of monocytes into dendritic cells, MSDCs, and osteoclasts. Increased MCP-1 expression has been linked to inflammatory diseases such as rheumatoid arthritis, atherosclerosis, and multiple sclerosis. (PMID: 19441883, 31921102)

Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ untreated or PMA, LPS and Brefeldin A treated THP-1 cells were intracellularly stained with 5 ul PE Anti-Human MCP-1/CCL2 Rabbit RecAb (PE-FcA98044, Clone: 230270A7). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).