

For Research Use Only

# Rat MCP-1/CCL2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83370-2-PBS



## Basic Information

**Catalog Number:**

83370-2-PBS

**Size:**

100ug, Concentration: 1 mg/ml by  
Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_031530

**GeneID (NCBI):**

24770

**UNIPROT ID:**

P14844

**Full Name:**

chemokine (C-C motif) ligand 2

**Calculated MW:**

16 kDa

**Observed MW:**

20 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

240341G3

## Applications

**Tested Applications:**

WB, Cytometric bead array, Sandwich ELISA, Indirect  
ELISA, Sample test

**Species Specificity:**

rat

## Product Information

83370-2-PBS targets MCP-1/CCL2 as part of a matched antibody pair:

MP00390-2: 83370-3-PBS capture and 83370-2-PBS detection (validated in Cytometric bead array)

MP00390-3: 83370-4-PBS capture and 83370-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

Monocyte chemoattractant protein-1 (MCP-1/CCL2) is one of the key chemokines that regulate migration and infiltration of monocytes/macrophages. Both CCL2 and its receptor CCR2 have been demonstrated to be induced and involved in various diseases. Migration of monocytes from the blood stream across the vascular endothelium is required for routine immunological surveillance of tissues, as well as in response to inflammation.

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

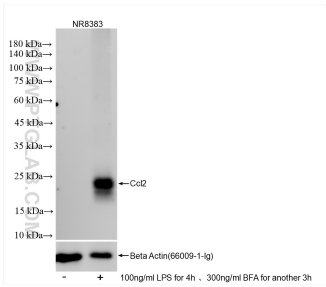
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

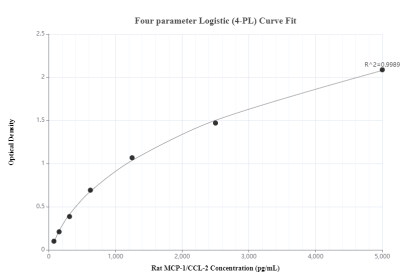
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

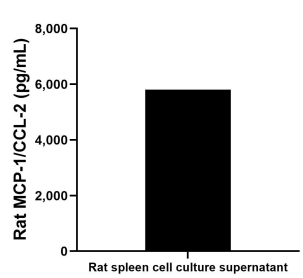
Selected Validation Data



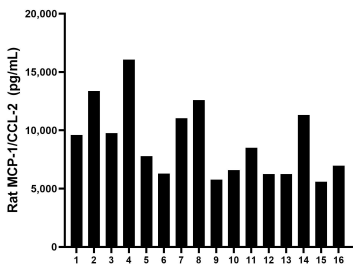
Untreated, LPS and Brefeldin A treated NR8383 cells were subjected to SDS PAGE followed by western blot with 83370-2-RR (Cc2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83370-2-PBS in a different storage buffer formulation.



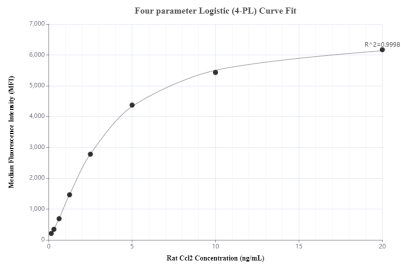
Sandwich ELISA standard curve of MP00390-3, rat MCP-1/CCL-2 Recombinant Matched Antibody Pair - PBS only. 83370-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard: Eg0397. 83370-2-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



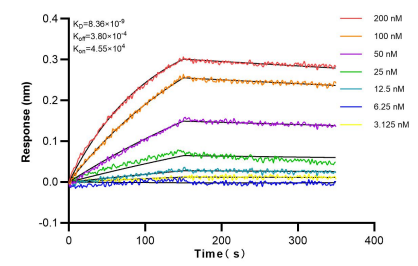
Rat spleen cell cultures (1/2 spleen; 1-2 mm pieces in 50 mL DMEM supplemented with 10% fetal bovine serum, containing 100 ng/mL LPS) were collected after culturing for 3 days in a CO<sub>2</sub>-enriched (9.5%) incubator. The cell culture supernatant was assayed for rat MCP-1/CCL2 and measured 5,804.62 pg/mL.



Serum of sixteen rat donors was measured. The MCP-1/CCL-2 concentration of detected samples was determined to be 8,981.3 pg/mL with a range of 5,770.2 - 16,068.9 pg/mL.



Cytometric bead array standard curve of MP00390-2, RAT MCP-1/CCL-2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83370-3-PBS. Detection antibody: 83370-2-PBS. Standard: Eg0397. Range: 0.156-20 ng/mL.



Bilayer interferometry (BLI) kinetic assays of 83370-2-RR against Rat MCP-1 were performed. The affinity constant is 0.836 nM.