

DATA SHEET

Versions: 01

Revision date: 25/11/2023

1. Identification

Product name: ELISA kits for Mouse of Mouse CCL3

Reactions: 96,48 Rxns

Cat. No.: PRA-MCCL3-96, PRA-MCCL3-48

2. Description

CCL3, also known as macrophage inflammatory protein 1 alpha (MIP-1 α), is an inflammatory chemokine characterized by an approximate molecular weight of 8 kilodaltons. This chemokine exerts its effects by binding to CCR1 and CCR5 receptors, facilitating the infiltration of memory lymphocytes, macrophages, and dendritic cells. Additionally, CCL3 is produced by these immune cells themselves. CCL3 serves a crucial function in the immune response against viruses, particularly in the context of infections such as HSV-1. Furthermore, it plays a significant role in the pathogenesis of inflammatory diseases, including autoimmune conditions. The chemokine's involvement in these processes highlights its importance as a key mediator in the immune system's response to infections and inflammatory challenges.

3. Kit Contents

Component	Cat. no	Quantity
Human anti- CCL3pre-coated plate	PRA- CCL3P	96 vials
Standards	PRA- CCL3SN1-4	200 μ l
HRP-Avidin buffer	PRA-HA	5 ml
HRP	PRA-HAA	540 μ l
Substrate	PRA-SU	5 ml
Stopping	PRA-ST	7 ml
10X washing buffer	PRA-WB	40 ml
Detection Ab	PRA- CCL3D	5 ml



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Revision date: 25/11/2023

4. Storage specifications

All Elisa kits components can be stored at 4°C temperature.

5. Applications

Detection of both inflammatory and anti-inflammatory factors through ELISA.

6. Assay Procedure

How to Prepare Solutions:

1. Washing Buffer:

- To prepare the washing solution, dilute it with distilled water at a 1:10 ratio.

2. HRP-Avidin:

- Spin the HRP vial using a microfuge device, then add all contents to the HRP-Avidin buffer vial.
- For quantities less than 48 assays, mix 416 μ l of HRP-Avidin and 41 μ l of HRP per 8-well row.

Working with the Kit:

1. Plate Preparation:

- Remove the plate from its package and let it reach room temperature in a dry environment.
- Add 50 μ l of standards #4 to #1 in the first to fourth wells.

2. Sample Incubation:

- Add 50 μ l of the desired sample to the remaining wells.
- Incubate for 60 minutes on a 200 RPM shaker at room temperature.

3. Plate Washing:

- After incubation, wash the plates three times with the washing solution.

4. Conjugated Antibody Addition:

- Add 50 μ l of the conjugated antibody (Detection ab) to all wells.
- Incubate for 60 minutes on a 200 RPM shaker at room temperature.



DATA SHEET

Versions: 01

Revision date: 25/11/2023

5. Plate Washing (Again):

- After incubation, wash the plates three times with the washing solution.

6. HRP-Avidin Addition:

- Add 50 µl of the HRP-Avidin solution to all wells.
- Incubate for 30 minutes on a shaker (at least at RPM 200).

7. Plate Washing (Again):

- After incubation, wash the plates five times with the washing solution.

8. Substrate Addition:

- Add 50 µl of substrate to all wells and incubate for 15 minutes. Adjust incubation time if needed (up to 20 minutes).

9. Stopping Reaction:

- Add 25 µl of the stopping solution to all wells.

10. Measurement:

- Measure the absorbance of the samples in an ELISA reader at a wavelength of 450 nm.

7. Safety

- The solutions used in the kit have oxidizing and acidic properties.
- Avoid direct contact with skin and eyes.
- In case of contact with the mentioned tissues, wash with plenty of water and go to the nearest medical center

8. Quality Certifications

9. Further information

- This product is developed, designed, and sold exclusively only for research purposes use.
- The product was not tested for use in diagnostics or for drug development.
- It is not suitable for administration to humans or animals.



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10. Other Kits

Other ELISA kits:

Human:

IL-1 β , IL-2, IL-4, IL-6, IL-8, IL-10, IL-12, IL-13, IL-18, IL-23, IL-29, IL-17A,
TGF- β , VEGF, TNF- α , IFN- γ , CCL2 (MCP-1), CCL3 (MIP-1-alpha), CXCL10
(IP-10), CXCL12 (SDF-1), CCL21

Mouse:

IL-1 β , IL-2, IL-4, IL-6, IL-10, IL-13, IL-33, IL-18, TNF- α , TGF- β , CCL3, IFN- γ ,
Total IgG, Total IgE

Rat:

TNF- α , IL-1 β , IL-6, IL-10, IL-17A

NOTE

All products have been manufactured by Karmania Pars Gene Company in the Iran.

