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| 1. Identification |

Product name: ELISA kits of human CCL21

Reactions: 96,48 Rxns

Cat. No.: PRA-CCL2196, PRACCL21-96-48

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| 2. Description |

The CCL21 molecule is a chemokine from the CC category, which affects immune and non-immune cells by binding to the CCR7 receptor. This molecule also plays an effective role in antimicrobial defense while defining the path of movement of cells with CCR7 and the proper formation of tissues (such as lymph nodes). The destructive role of this chemokine in the spread of cancer has also been well demonstrated by studies. However, many studies are needed to determine the complex role of this molecule.

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| 3. Kit Contents |

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| Component | **Cat. no** | Quantity |
| Human anti-CCL21 pre-coated plate | PRA-CCL21 P | 96/48 vials |
| Standards | PRA-CCL21 SN1-4 | 200 µl |
| HRP-Avidin buffer | PRA-HA | 5 ml |
| HRP | PRA-HAA | 540 µl |
| Substrate | PRA-SU | 5 ml |
| Stopping | PRA-ST | 7 ml |
| 10X washing buffer | PRA-WB | 40 ml |
| Detection Ab | PRA-CCL21 D | 5 ml |

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| 4. Storage specifications |

All components of the ELISA kits can be stored at 4°C temperature.

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| 5. Applications |

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

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| 6. Assay Procedure |

**Preparing Solutions:**

1. Washing Buffer:

- Dilute the provided washing solution with distilled water at a 1:10 ratio.

2. HRP-Avidin:

- Spin the HRP vial using a microfuge device, then add the entire content to the HRP-Avidin buffer vial.

- For quantities less than 48 assays, mix 416 µl of HRP-Avidin and 41 µl of HRP per 8-well row.

**Measuring IL8a with the Kit:**

1. Plate Preparation:

- Remove the plate from its packaging and allow it to reach room temperature in a dry environment.

- Add 50 µl of standards 1 to 4 to the first to fourth wells.

2. Sample Incubation:

- Add 50 µl 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 µl of the conjugated antibody (Detection ab) to all wells.

- Incubate for 60 minutes on a 200 RPM shaker at room temperature.

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 200 RPM).

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.

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| 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.

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| 8. Quality Certifications |

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

Mouse:

IL-1β, IL-2, IL-4, IL-6, IL-10, IL-13, IL-33, IL-17, TNF-α, TGF- β, CCL3, IFN-γ,

Total IgG, Total IgE

Rat:

TNF-α, IL-1β, IL-6, IL-10, IL-18A

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| NOTE |

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