Pioneer Research Anahita Company
No.157
Danesh street
Technology Park Pardis
Tehran/ Iran

DATA SHEET
Versions: 01
Revision date: 25/11/2023

1. Identification

Product name: ELISA kits for Mouse of Mouse IL-13

Reactions: 96,48 Rxns

Cat. No.: PRA-MIL-13 -96, PRA-MIL-13-α-48

2. Description

Cytokine IL-13 is one of the most important cytokines secreted by Th2 lymphocytes. This cytokine is especially important for changing the antibody class to IgE and plays an important role in the development of allergic diseases. Another effect of IL-13 is to cause asthma complications. The present kit was designed and produced using mouse anti-IL-13 monoclonal antibodies, so it is not used in measuring similar animal cases.

3. Kit Contents

Component	Cat. no	Quantity
Human anti-IL-13-α pre-coated plate	PRA–CIL-13 P	96 vials
Standards	PRA-IL-13 N1-4	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- IL-13 D	5 ml

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4. Storage specifications

All components of the ELISA kits 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 this solution with distilled water 10 times.
2. HRP-Avidin:
- Spin the HRP vial using a microfuge device, then add all its contents to the HRP-Avidin buffer vial.
- If quantities less than 48 assays are used, mix 416 µL of HRP-Avidin, 41 µL of HRP per 8-well row.

Working with the Kit:
1. Plate Preparation:
- Remove the plate from the desired package and bring it to room temperature in a dry environment.
- Add 50 µL of standards #4 to #1 to the first to fourth wells.
2. Sample Incubation:
- Add 50 µL of the desired sample to the rest of the wells.
- Incubate for 60 minutes on a 200 RPM shaker at room temperature.
3. Plate Washing:
- After proper incubation, wash the plates three times using the washing solution (after adding the washing solution, incubate the plates for approximately 1 minute at room temperature and then drain).

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4. Conjugated Antibody Addition:
   - Add 50 µL of conjugated antibody (Detection ab) to all wells.
   - Incubate for 60 minutes on a 200 RPM shaker at room temperature.
5. Plate Washing (Again):
   - After proper incubation, wash the plates three times using washing solution.
6. HRP-Avidin Addition:
   - Add 50 µL of HRP-Avidin solution to all wells.
   - Incubate for 30 minutes on a shaker (at least at RPM 200).
7. Plate Washing (Again):
   - After proper incubation, wash the plates five times using washing solution.
8. Substrate Addition:
   - Add 50 µL of substrate to all wells and incubate for 15 minutes. Note that 15 minutes is enough for incubation, but if the amount of color produced is low, the time can be increased to 20 minutes.
9. Stopping Reaction:
   - Add 25 µL of the stopping solution to all the 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

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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

10. Other Kits

Other ELISA kits:

Human:
IL-1β, 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-1β, 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-1β, IL-6, IL-10, IL-17A

NOTE

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