

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

1. Identification

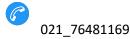
Product name: ELISA kits for Rat IL-10

Reactions: 96,48 rxns

Cat. No.: PRA-RIL-10 -96, PRA- RIL-10-48

2. Description

Interleukin-10 (IL-10), a pivotal anti-inflammatory cytokine, is produced by various immune cells, including regulatory T lymphocytes and macrophages. Renowned for its potent anti-inflammatory properties, IL-10 possesses receptors on a broad spectrum of immune cells, enabling it to regulate and suppress a wide array of immune system activities. IL-10 serves as a key mediator of anti-inflammatory responses, playing a crucial role in dampening immune system activities. With receptors on numerous immune cells, IL-10 has the ability to intricately regulate and suppress immune responses, promoting homeostasis. IL-10 is instrumental in establishing homeostasis post-microbial infections and preventing the development of autoimmune diseases. As a prominent anti-inflammatory indicator, IL-10 finds widespread application in laboratory studies. Its use aids in investigating disease conditions and assessing the inflammatory or anti-inflammatory effects of pharmaceutical agents. The present kit, meticulously designed and produced, utilizes monoclonal antibodies against human IL-10. It is crucial to note that this kit is specifically intended for measuring IL-10 levels in humans and may not be suitable for similar animal cases. This comprehensive overview emphasizes the crucial role of IL-10 in maintaining immune balance, making it a valuable tool in experimental research and clinical investigations focusing on inflammation and its regulation.







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3. Kit Contents

Component	Cat. no	Quantity
Human anti- RIL10 pre-	PRA-RIL10P	96 vials
coated plate		
Standards	PRA- RIL10N1-4	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- RIL10D	5 ml

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.

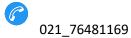
6. Assay Procedure

How to Prepare Solutions:

- 1. Washing Buffer:
- To prepare the washing solution, dilute it with distilled water at a 1:10 ratio.
- 2. HRP-Avidin:

- Spin the HRP vial using a microfuge device, then add all its contents to the HRP-Avidin buffer vial.

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









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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 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 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).

- 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 μ l 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:

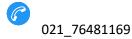
- Add 50 μ l of substrate to all wells and incubate for 15 minutes. Note that 15 minutes is enough for incubation, but if the amount of color produced is low, the time can be increased to 20 minutes.

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.







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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.

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.

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-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-1β, IL-6, IL-10, IL-17A

NOTE

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

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