### Anti-Rat IL-4 Antibody [PSH04-22] - BSA and Azide free (Detector)

## **HA722105**



Species reactivity: Rat

Applications: ELISA(Det)

Molecular Wt: Predicted band size: 16.2 kDa

Clone number: PSH04-22

**Description:** The interleukin 4 (IL4, IL-4) is a cytokine that induces differentiation of naive helper T cells

(Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4 in a positive feedback loop. IL-4 is produced primarily by mast cells, Th2 cells, eosinophils and basophils. It is closely related and has functions similar to IL-13. Interleukin 4 has many biological roles, including the stimulation of activated B cell and T cell proliferation, and the differentiation of B cells into plasma cells. It is a key regulator in humoral and adaptive immunity. IL-4 induces B cell class switching to IgE, and up-regulates MHC class II production. IL-4 decreases the production of Th1 cells, macrophages, IFNγ,

and dendritic cells IL-12. Overproduction of IL-4 is associated with allergies.

Immunogen: Recombinant protein within Rat IL-4 aa 25-147 (P20096).

**Positive control:** Recombinant Rat IL-4 protein (HA210759).

Subcellular location: Secreted.

Database links: SwissProt: P20096 Rat

**Recommended Dilutions:** 

ELISA(Det)

Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit

monoclonal [PSH04-21] to Rat IL-4 (Capture) (HA722104) and recombinant standard Rat

IL-4 protein (HA210759). The reference range value is 8.2-2000 pg/ml.

Storage Buffer: PBS (pH7.4).

**Storage Instruction:** Store at +4  $^{\circ}$ C after thawing. Aliquot store at -20  $^{\circ}$ C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

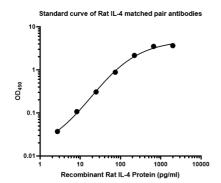
# Hangzhou Huaan Biotechnology Co., Ltd.



Service mail:support@huabio.cn



#### **Images**



**Fig1:** Sandwich ELISA analysis of Rat IL-4 matched pair antibodies

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### **Background References**

- Zhang J et al. IL4-driven microglia modulate stress resilience through BDNF-dependent neurogenesis. Sci Adv. 2021
   Mar
- 2. Arpa L et al. Distinct Responses to IL4 in Macrophages Mediated by JNK. Cells. 2023 Apr