

Anti-Rat IL-10 Antibody [PSH02-21] - BSA and Azide free (Capture)

HA721786



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Rat
Applications:	ELISA(Cap)
Molecular Wt:	Predicted band size: 20 kDa
Clone number:	PSH02-21

Description: Major immune regulatory cytokine that acts on many cells of the immune system where it has profound anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. Mechanistically, IL10 binds to its heterotetrameric receptor comprising IL10RA and IL10RB leading to JAK1 and STAT2-mediated phosphorylation of STAT3. In turn, STAT3 translocates to the nucleus where it drives expression of anti-inflammatory mediators. Targets antigen-presenting cells (APCs) such as macrophages and monocytes and inhibits their release of pro-inflammatory cytokines including granulocyte-macrophage colony-stimulating factor /GM-CSF, granulocyte colony-stimulating factor/G-CSF, IL-1 alpha, IL-1 beta, IL-6, IL-8 and TNF-alpha. Interferes also with antigen presentation by reducing the expression of MHC-class II and co-stimulatory molecules, thereby inhibiting their ability to induce T cell activation.

Immunogen: Recombinant protein within Rat IL-10 aa 19-178 (P29456).

Positive control: Recombinant Rat IL-10 protein (HA210714).

Subcellular location: Secreted

Database links: SwissProt: P29456 Rat

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH02-22] to Rat IL-10 (Detector) (HA721787). The reference range value is 13.7-10000pg/ml.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

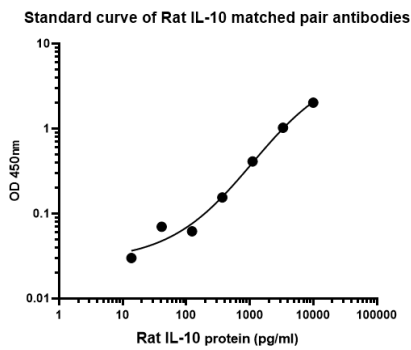
Technical:0086-571-89986345

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Images

Fig1: Sandwich ELISA analysis of Rat IL-10 matched pair antibodies.



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA721786) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1%BSA blocking buffer, and incubated with serial diluted Rat IL-10 protein starting from 10000 pg/ml to 0 pg/ml and detect antibody [PSH02-22]-Biotin for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

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

Background References

1. Cai W et al. Neuroprotection against ischemic stroke requires a specific class of early responder T cells in mice. *J Clin Invest.* 2022 Aug
2. Yang L et al. Depression-like behavior associated with E/I imbalance of mPFC and amygdala without TRPC channels in mice of knockout IL-10 from microglia. *Brain Behav Immun.* 2021 Oct

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