

## Anti-Human IL-10 Antibody [PS00-98] - BSA and Azide free (Capture)

# HA721236



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	ELISA(Cap)
<b>Molecular Wt:</b>	Predicted band size: 20 kDa
<b>Clone number:</b>	PS00-98

**Description:** Interleukin 10 (IL-10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. In humans, interleukin 10 is encoded by the IL10 gene. IL-10 signals through a receptor complex consisting of two IL-10 receptor-1 and two IL-10 receptor-2 proteins. Consequently, the functional receptor consists of four IL-10 receptor molecules. IL-10 binding induces STAT3 signalling via the phosphorylation of the cytoplasmic tails of IL-10 receptor 1 + IL-10 receptor 2 by JAK1 and Tyk2 respectively. IL-10 effects in immunoregulation and inflammation. It downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF- $\kappa$ B activity, and is involved in the regulation of the JAK-STAT signaling pathway. IL-10 predominantly inhibits lipopolysaccharide (LPS) and bacterial product mediated induction of the pro-inflammatory cytokines TNF $\alpha$ , IL-1 $\beta$ , IL-12, and IFN $\gamma$  secretion from Toll-Like Receptor (TLR) triggered myeloid lineage cells.

**Immunogen:** Recombinant full length human IL-10 protein.

**Positive control:** Recombinant IL-10 protein.

**Subcellular location:** Secreted

**Database links:** SwissProt: P22301 Human

**Recommended Dilutions:**  
**ELISA(Cap)** Use at an assay dependent concentration.

**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.

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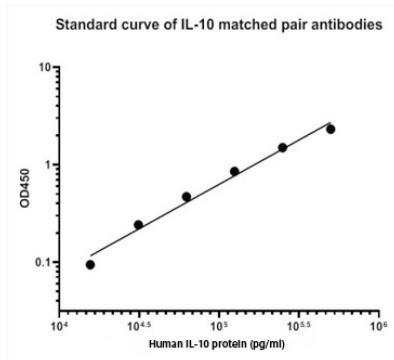
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## Images



**Fig1:** Sandwich ELISA analysis of IL-10 matched pair antibodies. Elisa assay was performed by coating wells of a 96-well plate with 50  $\mu$ l per well of capture antibody HA721236 [PS00-98] diluted in carbonate/bicarbonate buffer, at a concentration of 4  $\mu$ g/mL overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150  $\mu$ l 1% BSA/PBST blocking buffer, and incubated with serial diluted Recombinant IL-10 protein starting from 2000 pg/ml to 30.5 pg/ml for 1 hour at 37 $^{\circ}$ C. The plate was washed and incubated with 50  $\mu$ l per well of detect antibody HA721237 [PS00-81] (Biotin, 1:2000) for 1 hour at 37 $^{\circ}$ C. Then the plate was washed and incubated with 50  $\mu$ l per well of Streptavidin-HRP for 0.5 hour at 37 $^{\circ}$ C. 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. Capture/detect antibodies, Recombinant IL-10 protein, Streptavidin-HRP are diluted in 1% BSA/PBST.

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

## Background References

1. Mosser DM, Zhang X (December 2008). "Interleukin-10: new perspectives on an old cytokine". Immunological Reviews. 226 (1): 205–18.
2. Lazear HM, Nice TJ, Diamond MS (July 2015). "Interferon- $\lambda$ : Immune Functions at Barrier Surfaces and Beyond". Immunity. 43 (1): 15–28.

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