

## Anti-Human IL-2 Antibody [PSH01-42] - BSA and Azide free (Capture)

# HA721680



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	ELISA(Cap)
<b>Molecular Wt:</b>	17.6
<b>Clone number:</b>	PSH01-42

**Description:** Interleukin-2 (IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system. It is a 15.5–16 kDa protein that regulates the activities of white blood cells (leukocytes, often lymphocytes) that are responsible for immunity. IL-2 has essential roles in key functions of the immune system, tolerance and immunity, primarily via its direct effects on T cells. In the thymus, where T cells mature, it prevents autoimmune diseases by promoting the differentiation of certain immature T cells into regulatory T cells, which suppress other T cells that are otherwise primed to attack normal healthy cells in the body. IL-2 enhances activation-induced cell death (AICD). IL-2 also promotes the differentiation of T cells into effector T cells and into memory T cells when the initial T cell is also stimulated by an antigen, thus helping the body fight off infections. Together with other polarizing cytokines, IL-2 stimulates naive CD4+ T cell differentiation into Th1 and Th2 lymphocytes while it impedes differentiation into Th17 and follicular Th lymphocytes. IL-2 increases the cell killing activity of both natural killer cells and cytotoxic T cells. Its expression and secretion is tightly regulated and functions as part of both transient positive and negative feedback loops in mounting and dampening immune responses. Through its role in the development of T cell immunologic memory, which depends upon the expansion of the number and function of antigen-selected T cell clones, it plays a key role in enduring cell-mediated immunity. While the causes of itchiness are poorly understood, some evidence indicates that IL-2 is involved in itchy psoriasis.

<b>Immunogen:</b>	Recombinant protein within human IL-2 aa 21-153.
<b>Positive control:</b>	Recombinant Human IL-2 protein.
<b>Subcellular location:</b>	Secreted
<b>Database links:</b>	SwissProt: P60568 Human
<b>Recommended Dilutions:</b>	
<b>ELISA(Cap)</b>	1:1,000. Can be paired for Sandwich ELISA with Mouse monoclonal [A8B7] to Human IL-2 (Detector) (HA601006).
<b>Storage Buffer:</b>	PBS (pH7.4).
<b>Storage Instruction:</b>	Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Purity:</b>	Protein A affinity purified.

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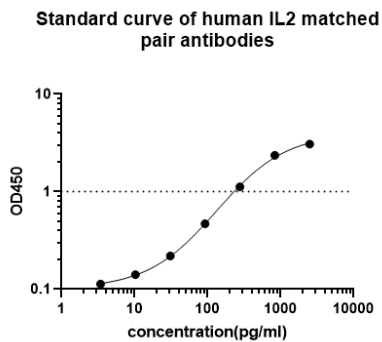
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## Images



**Fig1:** Standard curve of human IL-2 matched pair antibodies:

Sandwich ELISA analysis of human IL-2 matched pair antibodies  
 Elisa assay was performed by coating wells of a 96-well plate with 100  $\mu$ l per well of capture antibody [PSH01-42] diluted in carbonate/bicarbonate buffer, at a concentration of 2  $\mu$ g/mL overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150  $\mu$ l 0.05% tween-20 1%BSA blocking buffer, and incubated with serial diluted IL-2 protein starting from 2500 pg/ml to 0 pg/ml and detect antibody [A8B7]-Biotin (0.2  $\mu$ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100  $\mu$ 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. Mizui M. Natural and modified IL-2 for the treatment of cancer and autoimmune diseases. Clin Immunol. 2019 Sep
2. Abbas AK. et. al. Revisiting IL-2: Biology and therapeutic prospects. Sci Immunol. 2018 Jul

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