

## Anti-Mouse IL-6 Antibody [PSH0-58] - BSA and Azide free (Capture)

# HA721411



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Mouse
<b>Applications:</b>	ELISA(Cap)
<b>Molecular Wt:</b>	Predicted band size: 24 kDa
<b>Clone number:</b>	PSH0-58

**Description:** Interleukin 6 (IL-6) is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine. In addition, osteoblasts secrete IL-6 to stimulate osteoclast formation. Smooth muscle cells in the tunica media of many blood vessels also produce IL-6 as a pro-inflammatory cytokine. IL-6's role as an anti-inflammatory myokine is mediated through its inhibitory effects on TNF-alpha and IL-1 and its activation of IL-1ra and IL-10. There is some early evidence that IL-6 can be used as an inflammatory marker for severe COVID-19 infection with poor prognosis, in the context of the wider coronavirus pandemic. IL-6 is secreted by macrophages in response to specific microbial molecules, referred to as pathogen-associated molecular patterns (PAMPs). These PAMPs bind to an important group of detection molecules of the innate immune system, called pattern recognition receptors (PRRs), including Toll-like receptors (TLRs). These are present on the cell surface and intracellular compartments and induce intracellular signaling cascades that give rise to inflammatory cytokine production. IL-6 is an important mediator of fever and of the acute phase response. IL-6 stimulates the inflammatory and auto-immune processes in many diseases such as multiple sclerosis, neuromyelitis optica spectrum disorder (NMOSD), diabetes, atherosclerosis, depression, Alzheimer's disease, systemic lupus erythematosus, multiple myeloma, prostate cancer, Behçet's disease, rheumatoid arthritis, and intracerebral hemorrhage.

**Immunogen:** Recombinant full length of mouse IL6 protein.

**Positive control:** Recombinant mouse IL6 protein.

**Subcellular location:** Secreted.

**Database links:** SwissProt: P08505 Mouse  
Entrez Gene: 16193 Mouse  
Unigene: 1019 Mouse

**Recommended Dilutions:**

**ELISA(Cap)** Use at an assay dependent concentration. Can be paired for Sandwich ELISA as Capture antibody with Rabbit monoclonal [PSH0-59] to Mouse IL-6 (Detector) (HA721412) or Rabbit monoclonal [PSH0-60] to Mouse IL-6 (Detector) (HA721413).

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

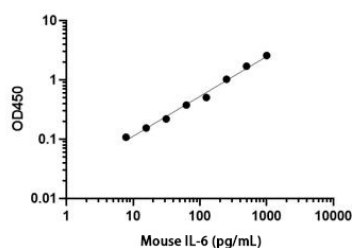
Technical:0086-571-89986345

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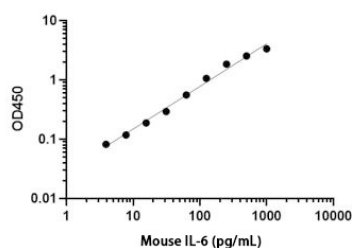
## Images

Standard curve of mouse IL6 matched pair antibodies



**Fig1:** Standard curve of mouse IL-6 matched pair antibodies: Sandwich ELISA analysis of mouse IL-6 matched pair antibodies Elisa assay was performed by coating wells of a 96-well plate with 50  $\mu$ l per well of capture antibody PSH0-58 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-6 protein starting from 2000 pg/ml to 0 pg/ml and detect antibody PSH0-60-Biotin (0.2  $\mu$ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 50  $\mu$ l per well of Streptavidin-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.

Standard curve of mouse IL6 matched pair antibodies



**Fig2:** Standard curve of mouse IL-6 matched pair antibodies: Sandwich ELISA analysis of mouse IL-6 matched pair antibodies Elisa assay was performed by coating wells of a 96-well plate with 50  $\mu$ l per well of capture antibody PSH0-58 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-6 protein starting from 2000 pg/ml to 0 pg/ml and detect antibody PSH0-59-Biotin (0.2  $\mu$ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 50  $\mu$ l per well of Streptavidin-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. Kang S., Tanaka T., Narazaki M., Kishimoto T. Targeting Interleukin-6 Signaling in Clinic. *Immunity* 50:1007-1023(2019).
2. Wolsk E., Mygind H., Groendahl T.S., Pedersen B.K., van Hall G. IL-6 selectively stimulates fat metabolism in human skeletal muscle. *Am. J. Physiol.* 299:E832-E840(2010)

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