

Anti-Human IL-22 Antibody [PSH03-11] - BSA and Azide free (Capture)

HA721939



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH03-11

Description: IL-22 (Interleukin-22) is a cytokine that induces the production of reactive oxygen species, IL-6, IL-10, and TNF-alpha as well as neutrophil infiltration during inflammation. It also supports the integrity of epithelial barriers and induces epithelial cell proliferation during wound healing. IL-22 signals through a receptor complex consisting of IL-22 R and IL-10 R beta. IL-10 R beta is a shared component of the receptor complexes for IL-10, IL-26, IL-28, and IL-29. IL-22 additionally binds to IL-22BP which blocks the interaction of IL-22 with IL-22 R.

Immunogen: Recombinant protein within human IL-22 aa 34-179 (HA210691).

Positive control: Recombinant Human IL-22 protein (HA210691).

Subcellular location: Secreted

Database links: SwissProt: Q9GZX6 Human

Recommended Dilutions:

ELISA(Cap)

Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH03-12] to Human Human IL-22 (Detector) (HA721940) and recombinant standard Human Human IL-22 (HA210691) as the standard. The reference range value is 8.2-2,000 pg/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

Service mail:support@huabio.cn

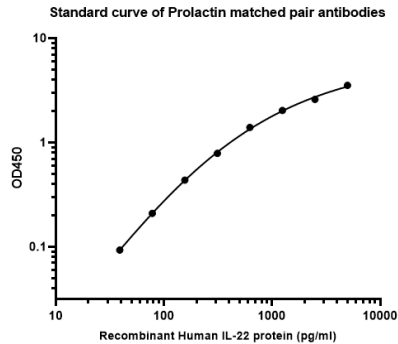
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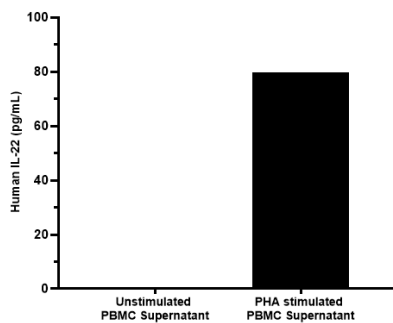
Fig1: Sandwich ELISA analysis of human IL-22 matched pair antibodies

Capture: HA721939, Mouse CRP Rabbit mAb [PSH03-11]

Detector: HA721940, Mouse CRP Rabbit mAb [PSH03-12]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA721939) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/mL overnight at 4°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 Recombinant Human IL-22 protein (HA210691) starting from 2000 pg/ml to 0 pg/ml and detect antibody (HA721940, Biotin, 0.2 μ g/ml) for 1 hour at 30°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°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.

**Fig2:** Conditioned media was harvested after 48 hours. IL-22 was measured in 100% unstimulated and PHA stimulated PBMC supernatant. The concentrations of IL-22 were interpolated from the IL-22 standard curves and corrected for sample dilution. The mean IL-22 concentration was determined to be 79.7 pg/mL in PHA stimulated PBMC supernatant and there was no detectable signal in unstimulated supernatant.

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

Background References

1. Jones B.C., Logsdon N.J., Walter M.R. Structure of IL-22 bound to its high-affinity IL-22R1 chain. *Structure* 16:1333-1344 (2008)
2. Akil H., Abbaci A., Lalloue F., Bessette B., Costes L.M., Domballe L., Charreau S., Guilloteau K., Karayan-Tapon L., Bernard F.X., Morel F., Jauberteau M.O., Lecron J.C. IL22/IL-22R pathway induces cell survival in human glioblastoma cells. *PLoS ONE* 10:e0119872-e0119872 (2015)

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