Anti-IFN-alpha Antibody [PS00-80] HA721290

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Molecular Wt:	Predicted band size: 22 kDa
Clone number:	PS00-80
Description:	IFN-alpha is a pharmaceutical drug composed of natural interferon alpha (IFN-α). Interferon alfa is used in a variety of treatments, including certain forms of leukemia, malignant melanoma, non-Hodgkin's lymphoma, hepatitis B, and hepatitis C. It is typically administered as an injection under the skin. Interferon alfa contains a mixture of several proteins, all with structural, serological, and functional properties typical for natural interferon alpha (IFN-α). IFN-α8 enhances the proliferation of human B cells, as well as being able to activate NK cells. The subtypes α 10 and α 2, along with α 8, are the most efficient and powerful NK cell activators. Subtypes α 21 and α 2 enhance the expression of IFN-gamma-inducible protein-10 (IP-10) in dendritic cells. Activated dendritic cells initiate immune responses and induce the expression of IP-10, a chemokine which promotes a Th1 inflammatory response. IFN- α 1 causes increased HLA-II expression, and can directly inhibit tumor cell growth in vitro. However, it is a poor activator of NK cells, has relatively little antiviral activity, does not induce B cell proliferation, and does not enhance HLA-I or tumor antigen expression. Despite its apparent inactivity, it is still used clinically in the treatment of metastatic renal cell carcinoma, with a reported lower toxicity than the recombinant IFN- α 2. Overall, IFN- α has a general inflammatory action which skews the immune response towards a Th1 profile.
lmmunogen:	Recombinant full length protein.
Positive control:	Recombinant human IFN-alpha protein.
Subcellular location:	Secreted.
Database links:	SwissProt: P01562 Human
Recommended Dilutions: ELISA(Cap)	Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PS00-79] to IFN-alpha (Detector) (HA721291).
Storage Buffer:	PBS (pH7.4).
Storage Instruction:	Store at +4 $^\circ\!\!\mathbb{C}$ after thawing. Aliquot store at -20 $^\circ\!\!\mathbb{C}$. 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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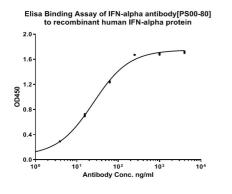
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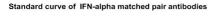
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

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Images





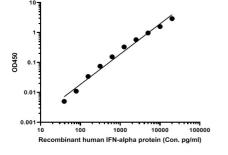


Fig1: The binding activity of IFN-alpha (HA721290) with recombinant human IFN-alpha protein.

Immobilized recombinant human IFN-alpha protein at 1 µg/ml overnight at 4°C. Then blocked with 1xTBS/1%BSA for 1 hour at 37°C, and incubated with the primary antibody (HA721290) for 45min at 37°C. Then the plate was washed and incubated with 50 µl per well of Goat anti-Rabbit IgG-HRP for 0.5 hour at 37°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.

Fig2: Standard curve of IFN-alpha matched pair antibodies:

Sandwich ELISA analysis of IFN-alpha matched pair antibodies Elisa assay was performed by coating wells of a 96-well plate with 50 µl per well of capture antibody HA721290 [PS00-80] diluted in carbonate/bicarbonate buffer, at a concentration of 4 µg/mL overnight at 4°C. Wells of the plate were washed, blocked with 150 µl 1% BSA/PBST blocking buffer, and incubated with serial diluted recombinant IFN-alpha protein starting from 20 ug/ml to 19 pg/ml for 1 hour at 37°C. The plate was washed and incubated with 50 µl per well of detect antibody [PS00-79] (Biotin, 1:2,000) for 1 hour at 37°C. Then the plate was washed and incubated with 50 µl per well of Streptavidin-HRP for 0.5 hour at 37°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.

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

Background References

- 1. Woo MH, Burnakis TG (March 1997). "Interferon alfa in the treatment of chronic viral hepatitis B and C". The Annals of Pharmacotherapy. 31 (3): 330–7.
- 2. "Interferon alfa Drug Information Chemocare". chemocare.com. Retrieved 2021-10-17.

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