

Anti-Mouse IFN gamma Antibody [PSH03-20] - BSA and Azide free (Capture)

HA721956



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	ELISA(Cap)
Clone number:	PSH03-20

Description: IFN gamma (Interferon gamma, Type II interferon) is a macrophage activation factor, and immune interferon that is produced primarily by T-lymphocytes and natural killer cells in response to antigens, mitogens, Staphylococcus enterotoxin B, phytohemagglutinin and other cytokines. IFN gamma is a dimeric protein consisting of two 146 amino acid subunits. IFN gamma is a glycoprotein that exists, functionally, as a homodimer of approximately 45 kDa. On SDS-PAGE, IFN gamma appears as a combination of 25, 20 and minor 15.5 kDa bands as a result of differential glycosylation. The biological activity of the IFN gamma homodimer is highly species specific. Human IFN gamma does not show cross-reactivity with mouse. IFN gamma function includes the following: antiviral activity, tumor antiproliferative activity, induction of class I and II MHC, macrophage activation, and enhanced immunoglobulin secretion by B lymphocytes. IFN gamma is involved in cytokine regulation and also acts synergistically with other cytokines. Activation of IFN gamma takes place through binding of IFN gamma receptor I and II, and activating the JAK-STAT pathway. IFN gamma does not show any homology with IFN alpha or IFN beta but human IFN gamma shows about 40% sequence homology with mouse IFN gamma. IFN gamma is upregulated by IL2, FGF basic, EGF and downregulated by vitamin D3 or DMN. IFN gamma gene mutations are associated with aplastic anemia.

Immunogen: Recombinant protein within Mouse IFN-gamma aa 23-155.

Subcellular location: Secreted

Database links: SwissProt: P01580 Mouse

Recommended Dilutions:

ELISA(Cap) 1:1,000

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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Images

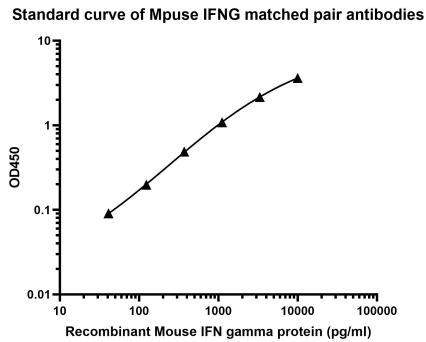


Fig1: Sandwich ELISA analysis of Mouse IFN gamma matched pair antibodies

Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA721956) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/mL overnight at 4 $^{\circ}$ 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 Mouse IFN gamma protein starting from 2000 pg/ml to 0 pg/ml and detect antibody-Biotin (0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ 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 $^{\circ}$ 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. Greenlund A.C., Schreiber R.D., Goeddel D.V., Pennica D. Interferon-gamma induces receptor dimerization in solution and on cells. *J. Biol. Chem.* 268:18103-18110 (1993).
2. Hisamatsu H., Shimbara N., Saito Y., Kristensen P., Hendil K.B., Fujiwara T., Takahashi E., Tanahashi N., Tamura T., Ichihara A., Tanaka K. Newly identified pair of proteasomal subunits regulated reciprocally by interferon gamma. *J. Exp. Med.* 183:1807-1816 (1996).

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