

Anti-Rat IFN gamma Antibody [PS01-96] - BSA and Azide free (Capture)

HA721618



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Rat
Applications:	ELISA(Cap)
Clone number:	PS01-96

Description: IFN-gamma (Interferon-gamma) is the prototype proinflammatory cytokine and is produced by a variety of immune cells under inflammatory conditions, notably by T cells and NK cells. It plays a key role in host defense by promoting the development and activation of Th1 cells, chemoattraction and activation of monocytes and macrophages, upregulation of antigen presentation molecules, and immunoglobulin class switching in B cells. It also exhibits antiviral, antiproliferative, and apoptotic effects. In addition, IFN-gamma functions as an anti-inflammatory mediator by promoting the development of regulatory T cells and inhibiting Th17 cell differentiation. IFN-gamma dimers signal through a receptor complex of two IFN-gamma R1 and two IFN-gamma R2 subunits.

Immunogen: Recombinant protein within Rat IFN gamma aa 24-161.

Subcellular location: Secreted

Database links: SwissProt: P01581 Rat

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.

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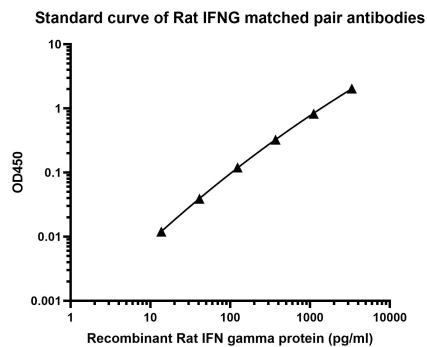
Orders:0086-571-88062880

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Images

Fig1: Sandwich ELISA analysis of Rat 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 (HA721618) 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 Rat IFN gamma protein starting from 2000 pg/ml to 0 pg/ml and detect antibody (HA721619) -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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