

Monkey IFN- γ ELISA development kit

Product Code: 3420M-1A-6

CONTENTS, development kit for 6 plates:

Vial 1 (green top)

Monoclonal antibody GZ-4 (150 μ l)

Concentration: 1 mg/ml

Vial 2 (yellow top)

Biotinylated monoclonal antibody 7-B6-1 (80 μ l)

Concentration: 1 mg/ml

Vial 3 (white top)

Streptavidin-Alkaline Phosphatase (80 μ l)

Vial 4

Recombinant human IFN- γ standard (1 μ g)

To ensure total recovery of stated quantity, vials have been overfilled.

STORAGE:

Shipped at ambient temperature. On arrival vials should be stored refrigerated at 4-8°C.

General

Intended use: For quantitative determination of native and recombinant monkey IFN- γ in solution, e.g. cell culture supernatant.

Serum/plasma samples: Please note that determination of analyte in serum/plasma samples by this kit requires the use of ELISA diluent (product code: 3652-D2) for dilution of samples, standard and detection antibody. The diluent prevents false positive read-outs which may be caused by interference of heterophilic antibodies commonly found in human serum/plasma and possibly also in monkey serum/plasma. Please contact Mabtech for further information.

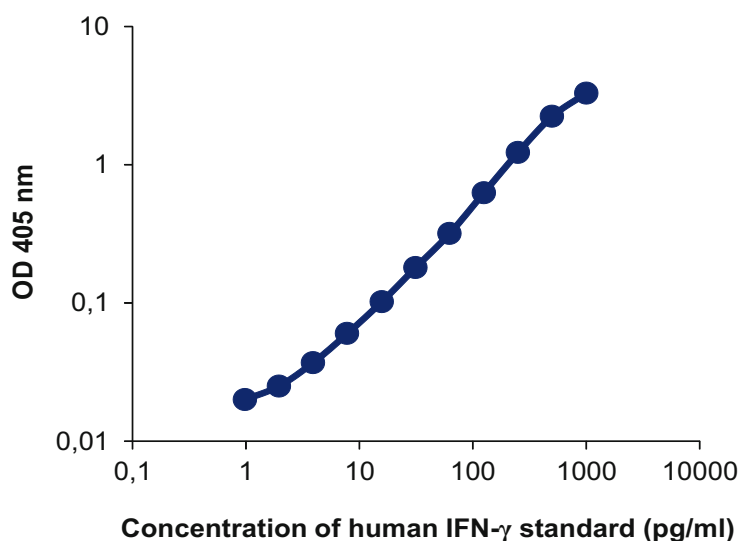
Specificity: Native and recombinant human IFN- γ and native IFN- γ from rhesus and cynomolgus macaques. Inquire for reactivities with other monkey species. For detection of chimpanzee IFN- γ the ELISA kit for human IFN- γ can be used.

Reagents: Antibodies are supplied in sterile-filtered (0.2 μ m) PBS with sodium azide (0.02%). Streptavidin-ALP is supplied in Tris buffer with 0.002% Kathon CG.

Standard range: 4-400 pg/ml

Standard calibration: 1 ng of supplied standard equals 176 U of Gxg01-902-535 NIAID*-standard according to repeated calibrations. Calibration is batch-specific.

*National Institute of Allergy and Infectious Diseases, USA.



Guidelines for Monkey IFN- γ ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAb GZ-4, diluted to 2 $\mu\text{g}/\text{ml}$ in PBS, pH 7.4, by adding 100 $\mu\text{l}/\text{well}$. Incubate overnight at 4-8°C.
- Day 2**
2. Wash twice with PBS (200 $\mu\text{l}/\text{well}$).
 3. Block plate by adding 200 $\mu\text{l}/\text{well}$ of PBS with 0.05% Tween 20 containing 0.1% BSA (incubation buffer). Incubate for 1 hour at room temperature.
 4. Wash five times with PBS containing 0.05% Tween.
 5. Prepare hIFN- γ standard by reconstituting contents of vial 4 in 1 ml PBS with 1% BSA to a concentration of 1 $\mu\text{g}/\text{ml}$. Leave at room temperature for 15 minutes and then vortex the tube. The stock solution should be used immediately or stored in aliquots at -20°C for future use. We recommend the aliquots not be refrozen after initial use. For the test, prepare dilutions of the stock using the standard range as a guideline.
 6. Add 100 $\mu\text{l}/\text{well}$ of samples or standards diluted in incubation buffer or ELISA diluent for serum/plasma samples and incubate for 2 hours at room temperature.
 7. Wash as in step 4.
 8. Add 100 $\mu\text{l}/\text{well}$ of mAb 7-B6-1-biotin at 1 $\mu\text{g}/\text{ml}$ in incubation buffer or ELISA diluent for serum/plasma samples. Incubate for 1 hour at room temperature.
 9. Wash as in step 4.
 10. Add 100 $\mu\text{l}/\text{well}$ of Streptavidin-ALP diluted 1:1000 in incubation buffer. Incubate for 1 hour at room temperature.
 11. Wash as in step 4.
 12. Add 100 $\mu\text{l}/\text{well}$ of appropriate substrate solution e.g. p-nitrophenyl-phosphate (pNPP).
 13. Measure the optical density (405 nm for pNPP) in an ELISA reader after suitable developing time.

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