

# Monkey IFN- $\gamma$ ELISA development kit

Product Code: 3420M-1H-6

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CONTENTS, development kit for 6 plates:

**Vial 1 (green top)**

Monoclonal antibody GZ-4 (150  $\mu$ l)

Concentration: 1 mg/ml

**Vial 2 (yellow top)**

Biotinylated monoclonal antibody 7-B6-1 (80  $\mu$ l)

Concentration: 1 mg/ml

**Vial 3 (white top)**

Streptavidin-Horseradish Peroxidase (80  $\mu$ l)

**Vial 4**

Recombinant human IFN- $\gamma$  standard (1  $\mu$ 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- $\gamma$  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.

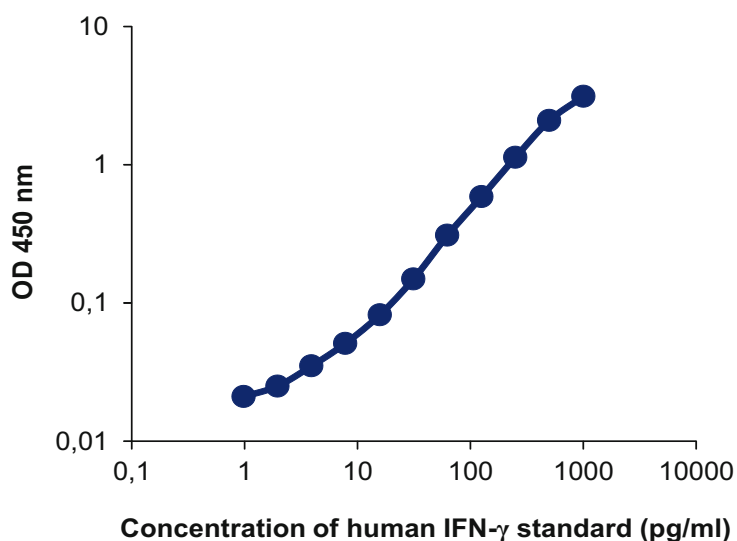
**Specificity:** Native and recombinant human IFN- $\gamma$  and native IFN- $\gamma$  from rhesus and cynomolgus macaques. Inquire for reactivities with other monkey species. For detection of chimpanzee IFN- $\gamma$  the ELISA kit for human IFN- $\gamma$  can be used.

**Reagents:** Antibodies are supplied in sterile-filtered (0.2  $\mu$ m) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 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- $\gamma$ 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- $\gamma$  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-HRP diluted 1:1000 in incubation buffer. Incubate for 1 hour at room temperature. **Please note that sodium azide used in buffers will inhibit HRP activity.**
  11. Wash as in step 4.
  12. Add 100  $\mu\text{l}/\text{well}$  of appropriate substrate solution.
  13. Measure the optical density in an ELISA reader after suitable developing time. If required stop the reaction first.

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