

# Chicken IFN- $\gamma$ ELISA development kit

Product Code: 3125-1A-20

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CONTENTS, development kit for 20 plates:

**Vial 1 (green top)**

Monoclonal antibody MT6C2 (1 ml)

Concentration: 0.5 mg/ml

**Vial 2 (yellow top)**

Biotinylated monoclonal antibody MT7C10 (500  $\mu$ l)

Concentration: 0.5 mg/ml

**Vial 3 (white top)**

Streptavidin-Alkaline Phosphatase (250  $\mu$ l)

**Vial 4**

Recombinant chicken IFN- $\gamma$  standard

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

**STORAGE:**

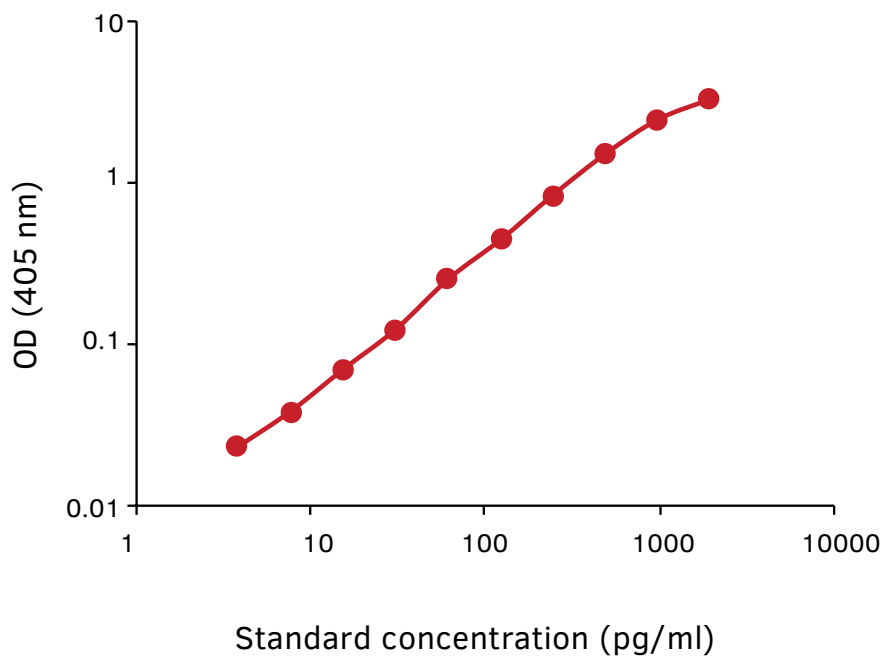
Shipped at ambient temperature. On arrival box 1 should be stored refrigerated at 4-8°C and box 2 should be stored frozen at -20°C.

# General

**Intended use:** For quantitative determination of native and recombinant chicken IFN- $\gamma$  in solution, e.g. cell culture supernatant and serum/plasma samples.

**Reagents:** Antibodies are supplied in sterile-filtered (0.2  $\mu\text{m}$ ) PBS with sodium azide (0.02%). Streptavidin-ALP is supplied in 0.1 M Tris buffer with 0.002% Kathon CG.

**Standard range:** 5-1000 pg/ml



# Guidelines for Chicken IFN- $\gamma$ ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAb MT6C2, 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% Tween20.
  5. Prepare chicken IFN- $\gamma$  standard by reconstituting contents of vial 4 in 1 ml PBS with 1% BSA and leave at room temperature for 15 minutes, then vortex the tube and spin down. This gives a concentration of 0.5  $\mu\text{g}/\text{ml}$ . Use immediately or store at +4°C for maximum 6 months. 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 and incubate for 2 hours at room temperature.
  7. Wash as in step 4.
  8. Add 100  $\mu\text{l}/\text{well}$  of mAb MT7C10-biotin at 1  $\mu\text{g}/\text{ml}$  in incubation buffer. 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), available from Mabtech product code 3652-P10.
  13. Measure the optical density (405 nm for pNPP) in an ELISA reader after suitable developing time.

Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the standards ISO 9001:2015 & ISO 13485:2016.



**The products are for research use only.**

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