

ELISA for Bovine IFN- γ

Product Code: 3119-1H-6

CONTENTS, development kit for 6 plates:

Vial 1 (green top)

Monoclonal antibody MT17.1 (300 μ l)

Concentration: 0.5 mg/ml

Vial 2 (red top)

Biotinylated monoclonal antibody MT307 (50 μ l)

Concentration: 0.5 mg/ml

Vial 3 (white top)

Streptavidin-Horseradish Peroxidase (80 μ l)

Vial 4

Recombinant bovine IFN- γ standard (0.5 μ g)

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.

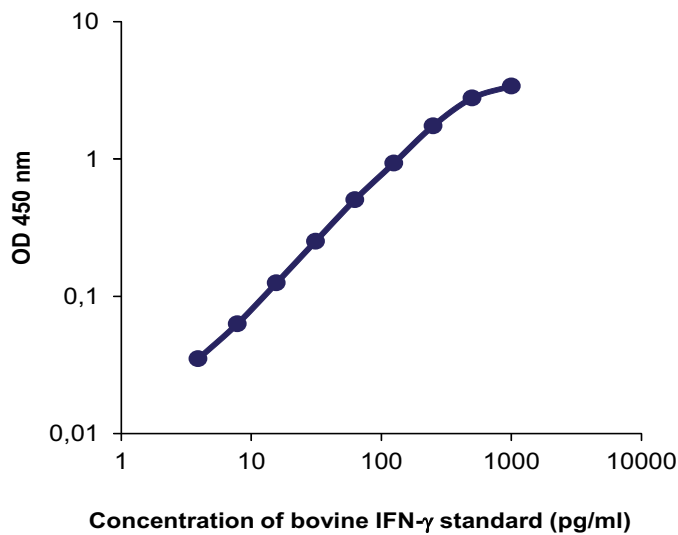
General

Intended use: For quantitative determination of native and recombinant bovine IFN- γ in solution, e.g. cell culture supernatant and serum/plasma samples. The two mAbs cross-react with native ovine IFN- γ .

Reagents: Antibodies are supplied in sterile-filtered (0.2 μm) PBS with sodium azide (0.02%). Streptavidin-HRP is supplied in PBS with 1% BSA and 0.15% Kathon CG.

Standard range: 5-500 pg/ml.

Standard calibration: No international standard exists for calibration.



Guidelines for Bovine IFN- γ ELISA

- Day 1**
1. Coat a high protein binding ELISA plate with mAb MT17.1, 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 bovine IFN- γ standard by reconstituting contents of vial 4 in 1 ml PBS to give a concentration of 0.5 $\mu\text{g}/\text{ml}$. Leave at room temperature for 15 minutes, then vortex the tube and spin down. Use immediately or store in aliquots at -20°C for future use. We recommend the aliquots not to 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 and incubate for 2 hours at room temperature.
 7. Wash as in step 4.
 8. Add 100 $\mu\text{l}/\text{well}$ of mAb MT307-biotin at 0.25 $\mu\text{g}/\text{ml}$ 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-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.

NOTE; for research use only.

MABTECH shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damages therefrom.



MABTECH AB
Box 1233
SE-131 28 Nacka Strand
Sweden
Tel: +46 8 716 27 00
Fax: +46 8 716 27 01
E-mail: mabtech@mabtech.com
www.mabtech.com

MABTECH Inc
M.E.B. 220
3814 West Street
Cincinnati, OH 45227
USA
Tel: +1 513 871 4500
Fax: +1 513 871 7353
E-mail: mabtech.usa@mabtech.com

MABTECH AB Büro Deutschland
Germany
Tel: +49 40 4135 7935
Fax: +49 40 4135 7945
E-mail: mabtech.de@mabtech.com

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Developed and manufactured by MABTECH AB, Sweden, whose quality management system complies with the following standards:



MABTECH AUSTRALIA Pty Ltd
resolvingIMAGES
Unit 22, 196 Settlement Road
Thomastown Victoria 3074
Australia
Tel: +61 3 9466 4007
Fax: +61 3 9466 4003
E-mail: mabtech.au@mabtech.com

MABTECH AB Bureau de liaison France
BP 255, 1300 route des Crêtes
06905 Sophia Antipolis
France
Tel: +33 (0)4 92 38 80 70
Fax: +33 (0)4 92 38 80 71
E-mail: mabtech.fr@mabtech.com