Canine IFN-γ ELISA development kit

Product Code: 3113-1H-20

CONTENTS, development kit for 20 plates:

Vial 1 (green top)
Monoclonal antibody MT13 (1000 µl)
Concentration: 0.5 mg/ml

Vial 2 (yellow top)
Biotinylated monoclonal antibody MT166 (250 µl)
Concentration: 0.5 mg/ml

Vial 3 (white top)
Streptavidin-Horseradish Peroxidase (250 µl)

Vial 4
Recombinant canine IFN-γ 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

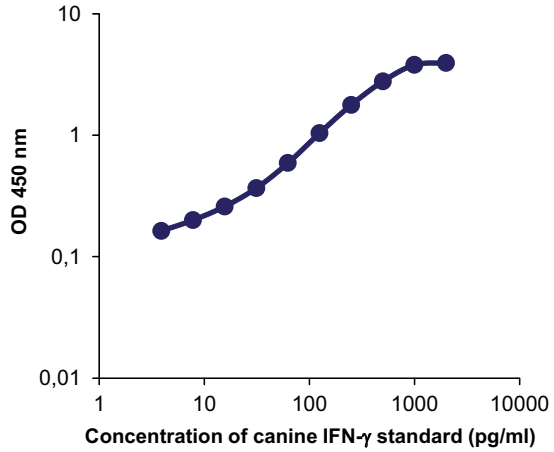
Intended use: For quantitative determination of native and recombinant canine IFN-γ in solution, e.g. cell culture supernatant and serum/plasma samples.

Serum/plasma samples: Please note that cytokine determinations in serum/plasma 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 found in plasma and serum. Please contact Mabtech for further information.

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 0.002% Kathon CG.

Standard range: 8-800 pg/ml

Standard calibration: No international standard exists for calibration.



Guidelines for Canine IFN-γ ELISA

Day 1 1. Coat a high protein binding ELISA plate with mAb MT13, diluted to 2 µg/ml in PBS, pH 7.4, by adding 100 µl/well. Incubate overnight at 4-8°C.

Day 2 2. Wash twice with PBS (200 µl/well).

3. Block plate by adding 200 µl/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 canine IFN-γ standard by reconstituting contents of vial 4 in 1 ml PBS and leave at room temperature for 15 minutes, then vortex the tube and spin down. This gives a concentration of 0.5 µg/ml. 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 µl/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 µl/well of mAb MT166-biotin at 0.5 µg/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 µl/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 µl/well of appropriate substrate solution e.g. TMB, available from Mabtech, product code 3652-F10.

13. Measure the optical density in an ELISA reader after suitable developing time. If required stop the reaction first.

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Updated on 2020/03/31

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

CERTIFIED ISO 9001 Quality management systems

CERTIFIED ISO 13485 Medical devices Quality management systems

The products are for research use only.

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