Product Datasheet

Human TNFa Matched Antibody Pair Kit PSA133Hu01 (96T x 5)

[Products overview]

Matched Antibody Pair Kit is composed of unlabeled capture antibody, Biotinylated detection antibody and a calibrated protein standard. The Matched Antibody Pair Kit can potentially be used for quantifying natural and recombinant human Tumor Necrosis Factor Alpha (TNFa) in ELISA, CLIA, ELISPOT, Luminex, Immunochromatography and other immunoassays. The Standard in the kit is recombinant TNFa . Both capture and detection antibody are mouse monoclonal antibodies.

[Components And Properties]

Components	Quantity	Form
Standard	20ng	Lyophilized, 1 vial
Capture Antibody	210μg / 0.167mL	Liquid, 1 vial, contains 0.1% sodium azide
Biotinylated Detection Antibody	30μg / 0.067mL	Liquid, 1 vial, contains 0.1% sodium azide

Notes: The kit contains raw materials for approximately 96 Tests x 10 plates. However, individual results may vary depending on the researcher's assay protocol and other variables.

[Recommended Buffers and Solutions]

Cloud-Clone's product of Assay Kit Antibody Pairs Support Pack 1 (Cat # IS077), which includes Coating Buffer, Blocking Buffer, Standard Diluent, Detection Antibody Diluent, Streptavidin-HRP Diluent, Wash Buffer, Streptavidin-HRP, Substrate Solution, Stop Solution is highly recommended for reagent preparation.

[Recommended Range / Dilution]

Standard: Reconstitute the Standard with 1.0mL of Standard Diluent (Cat # IS077). The recommended Range of Standard curve is 31.2-2,000pg/mL.

Capture Antibody: Dilute 360 times with Coating Buffer (Cat # IS077). For example, to make enough for 1 plate, add 28uL capture antibody to 10.052mL Coating Buffer.

Biotinylated Detection Antibody: Dilute 900 times with Detection Antibody Diluent (Cat # IS077). For example, to make enough for 1 plate, add 12uL Biotinylated Detection Antibody to 10.788mL Antibody Dilution Buffer.

Notes: The recommended Cloud-Clone's products of diluents and buffers are validated in the lab, other reagents selected for use can alter the performance of an immunoassay.

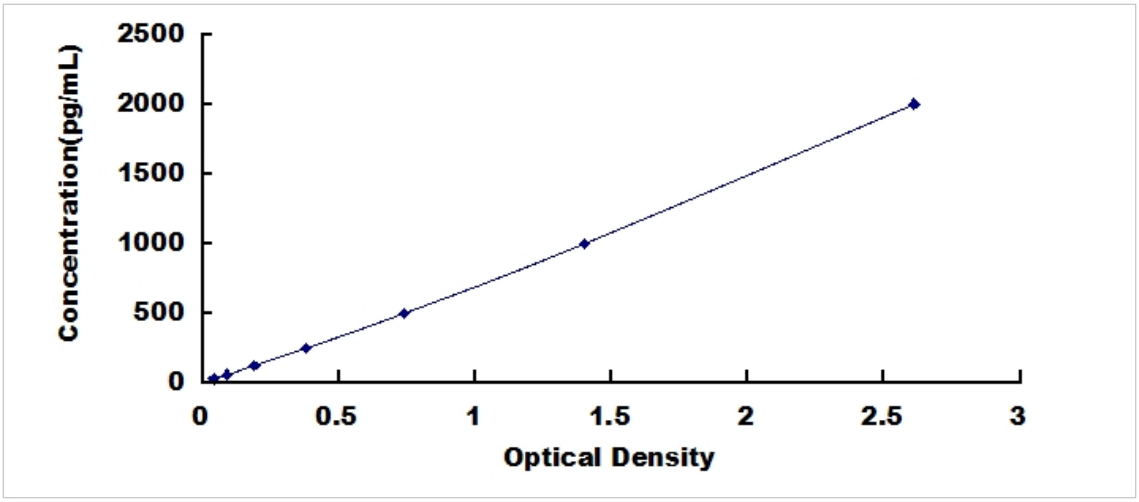
[Storage]

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -20°C for 12 months. Please make all solutions fresh before the experiment.

Notes: Please avoid contamination.

[Typical Data]

Typical standard curve below is provided for reference only. A standard curve should be generated for each experiment.



[Recommended Assay Protocol]

1. Dilute the Capture Antibody to working concentration in Coating Buffer. Immediately coat the 96-well microplates with 100μL per well of the diluted Capture Antibody. Seal the plate and incubate overnight at 4°C or incubate at 37°C for 2 hours.

2. Aspirate wells and wash with 350μL of Wash Buffer (Cat # IS077) per well, and let it sit for 1~2 minutes. Remove the remaining liquid by inverting and tapping the plate on absorbent paper.

3. Block plate with 200μL per well of Blocking Buffer (Cat # IS077) for 1.5 hours at 37°C.

4. Repeat the aspiration/wash process as in Step 2.

5. Add 100μL of different concentration of standards, samples into the appropriate wells. Cover with the Plate sealer. Incubate for 1 hour at 37°C.

6. Repeat the aspiration/wash process as in Step 2.

7. Add 100μL of the working Biotinylated Detection Antibody working solution to each well, cover the wells, and incubate for 1 hour at 37°C.

8. Repeat the aspiration/wash process for 3 times as in Step 2.

9. Add 100μL of the working solution of Streptavidin-HRP (Cat # IS077) to each well, cover the wells, and incubate for 30 minutes at 37°C.

10. Repeat the aspiration/wash process for total 5 times as in Step 2.

11. Add 90μL of Substrate Solution (Cat # IS077) to each well. Cover the wells, and incubate for 10-20 minutes at 37°C. Protect from light.

12. Add 50μL of Stop Solution (Cat # IS077) to each well. Mix the liquid by tapping the side of the plate.

13. Run the microplate reader and conduct measurement at 450nm immediately.