ANTIGENIX AMERICA, INC.

PRODUCT INFORMATION SUMMARY

Human IL-7 ELISA Construction Kit

Product	Number RH700020CK	Product Number RH700020CKC
Approx.	960 tests	With Developing Reagents:

Capture Antibody 50.0 ug ELISA Coating Stabilizer 50 mL Biotin-Labeled tracer 50.0 ug Streptavidin-HRP 0.5mL Antigen Standard 1.0 or 2.0 ug TMB Substrate (50 mL x 2) Wash Buffer (20X) 100 mL

DESCRIPTION:

This ELISA CONSTRUCTION Kit provides antigen affinity purified capture and tracer antibodies, and antigen standard sufficient for approximately ten microplates.
Working concentrations must be optimized by customer.

Note: Reconstitute components only when ready to run assay.

CAPTURE ANTIBODY:

Provided as lyophilized, 50 ug, additive-free. Reconstitute in 0.50 mL sterile water (0.1 mg/mL).

TRACER ANTIBODY:

Provided as 25 ug (lyophilized) or as 0.5 mL liquid @ 100.0 ug/mL (see vial) of Biotin labeled, antigen-affinity purified antibody, additive-free. Reconstitute the 25 ug (lyophilized vial) in 500 uL sterile water containing 0.1% BSA. (FREEZE aliquots for long-term storage).

liquid vial store refrigerated only (contains preservative) **.

STANDARD: Provided as 1.0 ug or 2.0 ug (see vial) of recombinant Human IL-7. Quick-spin and reconstitute in 50 uL of sterile water. Further dilutions can be made in 0.05% Tween-20, 0.1% BSA in PBS.

DEVELOPING REAGENTS: Supplied with catalog # ending in "CKC".

- ELISA Coating/ Blocking Reagent (EA150C) 50.0 mL (5X Solution)
- Streptavidin-HRP (S100180C) 0.5 mL store @ -20 Deq. C.
- TMB Substrate Solutions Part A and Part B (50.0 mL each)

• Wash Buffer (20X) -Dilute 1 part with 19 parts distilled water

HANDLING/ STORAGE: Reconstitute reagents when ready to build ELISA assay. Antibodies (Capture and Tracer) can be stored for approximately one week at 4 Degrees C. Or store frozen at -20 Degrees C. for up to 6 months.

Biotin tracer provided as 0.5 mL liquid - STORE refrigerated.

Standard (rec. Human IL-7) can be stored in liquid state (@ 4 Deg. C.) For up to one week, or store frozen at -20 Deg. C.(Add 0.1% BSA) for up to 2 months. AVOID repeat freeze-thaw.

MATERIALS RECOMMENDED:

ELISA Microplates: Nunc Maxisorp, Prod. # 4420404 Tween -20.

BSA

Streptavidin-HRP: ANTIGENIX Cat no. \$100180 or similar

TMB Substrate (ANTIGENIX cat # ES200)

Dubelco's PBS (10X)

ANTIGENIX ELISA Coating Stabilizer (cat no: EA150)

Wash Buffer: ANTIGENIX cat# WB200

RECOMMENDED SOLUTIONS:

See ANITGENIX Developing Reagents above.

PBS: Dilute to 1XPBS in sterile water

WASH BUFFER: 0.05% Tween-20 in PBS. Or WB200

BLOCK BUFFER: use ANTIGENIX AMERICA coating stabilizer recommended! - (EA150) or 1% BSA in PBS

Substrate Solution: TMB Substrate Solution (ANTIGENIX # ES200)

Diluent: 0.05% Tween-20, 0.1% BSA in PBS

2N Sulfuric acid (stop solution).

PLATE PREPARATION:

Dilute **portion** of capture antibody with 0.05M Carbonate buffer (or PBS) to concentration 0.5 ug/mL.

Immediately add 100 uL to each ELISA well. Seal the plate and incubate overnight at room temperature.

- Aspirate wells to remove all liquid and wash 4 times using 300 uL of wash buffer per well. After last wash, add 200 uL ANTIGENIX AMERICA ELISA coating stabilizer recommended! - (cat # EA150) and incubate for 60 minutes at room temperature. (With coating stabilizer, DO NOT let plate dry prior to use of coating stabilizer. This will stabilize and Block in one step! Refer to data sheet EA150 for complete description of use.
- 3. With ANTIGENIX coating stabilizer (recommended) aspirate plate but DO NOT WASH. Dry plate in humidity controlled

chamber or similar. (see data sheet EA150). With standard block reagent, aspirate plate and wash 3X with 300 uL wash buffer.

PROTOCOL:

STANDARD/SAMPLE: Dilute a portion of the standard (store unused standard in aliquots, high concentration, frozen -20 Deg. C.) from 2.0 ng/mL to zero blank: (8 point-1:2 serial dilution) in diluent Immediately add 100 uL of standard or sample to each well in duplicate. Incubate at room temp. for at 1-2 hours.

DETECTION: Aspirate and wash plate 4 times. Dilute a portion of detection (Tracer) antibody in diluent to concentration of 0.25 ug/mL. Add 100 uL per well. Incubate at room temperature for approx. 1 hour. Note: detection antibody can be used in approximate range of 0.25 - 0.50 ug/mL, you may need to optimize for subsequent plates.

STREPTAVIDIN-HRP: Aspirate and wash plate 4 times. Dilute Streptavidin-HRP conjugate approx. 1:2,000 in diluent (follow recommended dilution of manufacturer). (May need to optimize) Add 100 uL per well, incubate 30 minutes at room temperature.

SUBSTRATE: Aspirate and wash plate 4 times. Add 100 uL substrate solution to each well. (follow directions from manufacturer) Incubate at room temp. for color development. Monitor color development with plate reader at 650 nm wavelength. (for blue color). The color reaction may be stopped after 10 - 15 minutes by adding 100 uL of 2N Sulfuric acid to each well. Then, read plate @ 450 nm after addition of stop solution.

NOTE: reliable standard curves are obtained when O.D. readings do not exceed 0.30 units for the zero standard concentration, or 2.0 units for the highest standard concentration.

RESEARCH USE ONLY -NOT For DIAGNOSTIC USE

NOTE: Kit can be ordered with developing reagents: cat # ends in 'CKC' -see page 1.

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