# ANTIGENIX AMERICA, INC.

## PRODUCT INFORMATION SUMMARY

Human CTGFProduct Number RHF461CKX"SUPER X" ELISA Kit5 Plate Kit ( 5 x 96 tests)Product Number RHF461CKX2 ( 2 x 96 tests)Product Number RHF461CKX1 ( 1 x 96 tests)

Items Provided:

PRE-COATED ELISA Plates	(single, 2 or 5 plates)
Biotin-Labeled tracer	25.0 ug or 0.5 mL ( see vial)
Antigen Standard	5.0 ug or 1.0 ug ( see vial)
Streptavidin-HRP	0.5 mL
TMB Substrate	25 mL x 2 ( 15 mL - 2 plate)
Wash Buffer Concentrate	125 mL ( 20X) ( 50 mL - 2 plate)

### DESCRIPTION:

Human Connective Tissue Growth Factor (CTGF) **SUPER X ELISA Kit** provides **PRE-COATED** microplates coated with antigen affinity purified capture antibody stabilized with our proprietary ELISA coating/blocking reagent. A biotin labeled tracer antibody, antigen standard, HRP developing reagents and wash buffer are included.

Reactivity with various sample types, including serum/plasma samples, is evaluated by customer.

Note: Reconstitute components only when ready to run assay.

#### TRACER ANTIBODY:

Provided as 25 ug ( lyophilized ) or as 0.5 mL liquid @ 33.0 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). -

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

STANDARD: Provided as 5.0 ug ( or 1.0 ug - see vial) of recombinant Human CTGF. Quick-spin and reconstitute in distilled water (pH 8.0) - concentration approx. 0.1 mg/mL. Further dilutions can be made in 0.05% Tween-20, 0.1% BSA in PBS.

### DEVELOPING REAGENTS:

- Streptavidin-HRP ( S100180CX) 0.5 mL store @ -20 Deg. C.
- TMB Substrate Solutions Part A and Part B ( 25.0 mL each) cat # ES200CX
- Wash Buffer Concentrate (20X concentrate) Mix 1 volume of wash buffer with 19 volumes of distilled water. Stable for one month @ 4 Deg. C. once mixed to working volume. Concentrate may be stored at room temp.
- HANDLING/ STORAGE: Reconstitute reagents when ready to build ELISA assay. Biotin tracer Antibody provided as lyophilized (25 ug) can be stored for approximately one month, after reconstitution at 4 Degrees C. or store **frozen** at -20 Degrees C. for up to 6 months.

Biotin tracer antibody provided as 0.5 mL liquid - STORE refrigerated only - contains preservative.

Standard ( rec. CTGF) can be stored in liquid state ( @ 4 Deg. C.) for up to one week, or store **frozen**, **with addition of 0.1% BSA**, at -20 Deg. C. for up to 2 months. AVOID repeat freeze-thaw. Precoated ELISA plates should be stored in sealed plastic bag with desiccant pack, and are stable for one year from date of receipt. If needed, additional components ( antigen standard or developing reagents) can be purchased as separate items to run additional stored plates - inquire.

Store Streptavidin-HRP ( S100180XH) frozen @ -20 Deg. C.

Store TMB solutions and wash buffer concentrate at 4 Deg. C. CAUTION: Substrate Solution B contains 20% acetone. FLAMMABLE. Keep away from sources of heat or flame.

### MATERIALS RECOMMENDED:

Tween -20. BSA ( ELISA grade only, protease-free) Dubelco's PBS (10X) PBS: Dilute to 1XPBS in sterile water Diluent: use : 0.05% Tween-20, 0.1% BSA in PBS 2N Sulfuric acid ( stop solution)

#### PLATE PREPARATION:

Plates are **pre-coated** with capture antibody and blocked/stabilized with ANTIGENIX proprietary ELISA coating stabilizer (EA150) and are **ready to use**!

Store plates refrigerated (@ 4 Deg. C.) in sealed plastic bags with desiccant pack. Plates can be stored for one year from data of receipt.

### PROTOCOL: MODIFIED PROCEDURE: ( Add Standard/Sample and Biotin together)

**PREPARE** STANDARD/SAMPLE: Dilute **a portion of the** standard (store unused standard in aliquots, high concentration, frozen -20 Deg. C. with addition of 0.1% BSA) from **4.0 ng/mL** to zero in diluent (serial dilution).

**PREPARE** Biotin DETECTION: Dilute portion of the detection (Biotin Tracer) antibody in diluent to concentration of **0.30 ug/mL**.

Add 100 ul of each Standard ( or sample) and 50.0 uL of the Biotin Detection antibody to each well in duplicate.

**Incubate** at Room Temp. for **90 minutes.** Aspirate and WASH plate 4 Times.

STREPTAVIDIN-HRP: Dilute Streptavidin-HRP conjugate approx. 1:2,000 in diluent. Add 100 uL per well, incubate for 1 hour at room temperature.

SUBSTRATE: **Prepare substrate solution** no more than 15 minutes before last incubation of assay: Mix one part TMB Solution A with one part TMB Solution B in a clean container. If, upon mixing, TMB solution turns blue - TMB solution is **contaminated**-**DO NOT USE.** Use mixed substrate solution **WITHIN 2 Hours, and AVOID DIRECT LIGHT.** 

Aspirate and wash plate 4 times. Note: Wash steps are critical! Add 100 uL substrate solution to each well. Incubate at room temp. for color development. Add 100 uL of Stop solution ( 2N Sulfuric Acid) after 15-20 minutes to stop color development gently tap plate to mix. Read plate at 450 nm within 30 minutes of 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 1.6 units for the highest standard concentration.

#### X-REACTIVITY DATA:

The following factors were tested @ 40-50 ng/mL:

No measurable X-Reactivity was observed with following:

Human: IGF-I; IGF-II, IGF-BP1; CTGFL; BMP-4; TGF beta; WISP-1 and 3.

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