

REV: 08/12

ANTIGENIX AMERICA inc.

PRODUCT INFORMATION SUMMARY

Human FGF-Basic

Product Number **RHF322CKX**

"SUPER X" ELISA Kit

5 Plate Kit (5 x 96 tests)

RHF322CKX2 (2 x 96 tests)

Items Provided:

RHF322CKX1 (single plate)

PRE-COATED ELISA Plates (single, 2 or 5 plates)

Biotin-Labeled tracer 25.0 ug or 0.5 mL liquid - see vial)

Antigen Standard 10.0 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)

ELISA Diluent (10X) ; STOP Solution (1X)

DESCRIPTION:

Human FGF-Basic **SUPER X ELISA Kit** provides single, two or five **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.

Note: Reconstitute components only when ready to run assay.

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). -

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

STANDARD: Provided as 10.0 ug (or 1.0 ug - see vial) of recombinant Human FGF-Basic. Quick-spin and **reconstitute in 100 uL of 5mM Tris** (pH 7.6) - concentration approx. 50.0 ug/mL. Further dilutions can be made in Diluent provided (ED100) or **with 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.
- Diluent (10X) Dilute 1 part with 9 parts distilled water
- STOP Solution (1X) 2N Sulfuric Acid -**CAUTION Caustic**

HANDLING/ STORAGE: Reconstitute reagents when ready to build ELISA assay. Tracer Antibody provided as 25.0 ug lyophilized be stored for approximately one month 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- contains preservative.

Standard (rec. FGF basic) 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. Pre-coated ELISA plates should be stored in sealed plastic bag with desiccant pack, and are stable until expiration date of kit.

Store Streptavidin-HRP (S100180X) **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 : ANTIGENIX ED100 or , 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.

PROTOCOL:

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 **3.0 ng/mL** to zero in diluent (8 point, 1:2 serial dilution).

Immediately add 100 uL of standard or sample to each well in duplicate. **Incubate** at room temp. for **1 hour**.

DETECTION: Aspirate and wash plate 4 times. Dilute detection (Biotin Tracer) antibody in diluent to concentration of **0.20 ug/mL**. (approx. 1:250 from 50.0 ug/mL . **Add** 100 uL per well. Incubate at room temperature for **1 hour**.

STREPTAVIDIN-HRP: Aspirate and wash plate 4 times. Dilute Streptavidin-HRP conjugate **approx. 1:2,000** in diluent. **Add** 100 uL per well, incubate 30 minutes 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) **within 10-15 minutes** to stop color development - gently tap plate to mix. Then **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 1.8 units for the highest standard concentration.

X-Reactivity Data:

The following factors were observed to X-React **100% @ 40-50 ng/mL**

Mouse FGF basic and Rat FGF basic

The following factors were observed to **minimally** X-react (1%)

Human: FGF-4, FGF-8, FGF acidic

No measurable X-reactivity observed with:

Mouse FGF-9, FGF acidic

Human: FGF:-5, -6, -9, -10, -16, -17, -18, -19, -20, -21, -23;
KGF

RESEARCH USE ONLY -NOT For DIAGNOSTIC USE

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