PRODUCT INFORMATION SUMMARY

Human FGF-4ELISA Construction Kit

Product Number RHF772CK	Product Number RHF772CKC
Approx. 480 tests	With Developing Reagents:

50.0 ug Capture Antibody Biotin-Labeled tracer 25.0 ug Streptavidin-HRP 1.0mL Antigen Standard 5.0 ug TMB Substrate (50 mL x 2) 5.0 ug Antigen Standard

ELISA Coating Stabilizer 50 mL TMB Substrate (50 mL x 2)

DESCRIPTION:

This ELISA CONSTRUCTION Kit provides antigen affinity purified polyclonal capture and tracer antibodies, and antigen standard sufficient for **approximately** five 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). (FREEZE aliquots for longterm storage)

TRACER ANTIBODY:

Provided as 25 ug of Biotin labeled, antigen-affinity purified antibody, additive-free. Reconstitute in 500 uL sterile water **containing 0.1% BSA**. (FREEZE aliquots for long-term storage)

STANDARD: Provided as 5.0 ug of recombinant Human FGF-4. Quickspin and **reconstitute in 50 uL** of distilled water, pH 7.4. Further dilutions can be made in diluent (see below).

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

- ELISA Coating/ Blocking Reagent (EA150C) 50.0 mL (5X Solution)
- Streptavidin-HRP (S100180C) 1.0 mL store @ -20 Deg. C. •
- TMB Substrate Solutions Part A and Part B (50.0 mL each) cat # ES200C
- HANDLING/ STORAGE: Reconstitute reagents when ready to build ELISA assav. Antibodies (Capture and Tracer) can be stored for approximately one month at 4 Degrees C. Or store frozen at -20 Degrees C. for up to 6 months. Standard (rec. FGF-4) 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.

MATERIALS RECOMMENDED:

ELISA Microplates: Nunc Maxisorp, Prod. # 4420404 Tween -20. BSA Streptavidin-HRP: ANTIGENIX Cat no. **S100180** or similar TMB Substrate: ANTIGENIX cat # **ES200** Dubelco's PBS (10X) ANTIGENIX **ELISA Coating Stabilizer** (cat no: **EA150**)

RECOMMENDED SOLUTIONS:

See ANTIGENIX Developing reagents above.

PBS: Dilute to 1XPBS in sterile water WASH BUFFER: 0.05% Tween-20 in PBS. BLOCK BUFFER: use ANTIGENIX AMERICA coating stabilizer (EA150) or 1% BSA in PBS Substrate Solution: TMB Substrate Solution cat # ES200 Diluent: 0.05% Tween-20, 0.1% BSA in PBS 2N Sulfuric acid (stop solution).

PLATE PREPARATION:

- Dilute 100 uL of capture antibody with 0.05M Carbonate buffer (or PBS) to concentration 1.0 ug/mL. Immediately add 100 uL to each ELISA well. Seal the plate and incubate overnight at room temperature.
- 2. 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 **100.0 ng/mL** (Adjust; depending on desired range, and sensitivity of first standard curve) to zero in diluent (serial dilution). Immediately add 100 uL of standard or sample to each well in duplicate. Incubate at room temp. for approx. 2 hours.

DETECTION: Aspirate and wash plate 4 times. Dilute **a portion of the** detection (Tracer) antibody in diluent to concentration of 0.20 ug/mL. Add 100 uL per well. Incubate at room temperature for 2 hours. Note: detection antibody can be used in approximate range of 0.10 - 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 (see data sheet ES200 for preparation of substrate solution). Incubate at room temp. for color development. To monitor color development- set plate reader at 650 nm wavelength (blue color - prior to addition of stop solution). The color reaction may be stopped after 10 - 30 minutes by adding 100 uL of 2N Sulfuric acid to each well. Then, read plate at 450 nm with correction set to 650 nm) after reaction has been stopped.

NOTE: reliable standard curves are obtained when O.D. readings do not exceed 0.2 units for the zero standard concentration, or 2.0 units for the highest standard concentration. Monitor the plate every 5 minutes for approximately 30 minutes.

WARRANTY:

Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product.

RESEARCH USE ONLY -NOT For DIAGNOSTIC USE

NOTE: Kit can be ordered with the following developing reagents (suitable for approx. 1,000 wells - ten microplates) or order separately (larger sizes) as below:

ELISA Construction Kits Accessory Reagents Available:

Streptavidin-HRP; S100180, 1.0 mL \$ 190.00 USD ; suitable for 5,000 ELISA wells

TMB Substrate; ES200, 100 mL x 2, \$95.00; suitable for 2,000 ELISA wells

ELISA Coating Stabilizer; EA150; \$190.00, 100 mL (5X); suitable for 2,500 wells

Get All three reagents above as "ELISA Construction Pack"; EA700; \$410.00 USD.

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