## ANTIGENIX AMERICA Inc.

# PRODUCT INFORMATION SUMMARY

# Human RANTES ELISA Construction Kit

Product Number RHF520CK Approx. 960 tests

Product Number RHF520CKC
With Developing Reagents:

Capture Antibody 100.0 ug
Biotin-Labeled tracer 25.0 ug
Antigen Standard 1.0 or 5.0 ug

ELISA Coating Stabilizer 50 mL Streptavidin-HRP 0.5 mL TMB Substrate (50 mL x 2) WASH Buffer (20X) 100 mL

RHF520CKP - with Developing Reagnets and 10 plates
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, 100 ug, additive-free. Reconstitute in 0.50~mL sterile water (200.0 ug/mL).

#### 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.

STANDARD: Provided as 1.0 ug or 5.0 ug of recombinant Human RANTES. Quick-spin and reconstitute in 50 uL of sterile water. Further dilutions can be made in 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 Deg. C.
- TMB Substrate Solutions Part A and Part B ( 50.0 mL each) cat # ES200C
- 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 month at 4 Degrees C. Or store frozen at -20 Degrees C. for up to 6 months. Standard ( rec. Human RANTES) 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: ANTIGENIX WB200 or 0.05% Tween-20 in PBS.

BLOCK BUFFER: use ANTIGENIX AMERICA coating stabilizer (EA150)

or 1% BSA in PBS

Substrate Solution: TMB Substrate Solution (ANTIGENIX # ES200)

Diluent: 0.1% BSA in PBS

2N Sulfuric acid ( stop solution)

#### PLATE PREPARATION:

1. Dilute **portion** 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**. For extended storage- 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 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 approx. 90 minutes

**DETECTION:** Aspirate and wash plate 4 times. **Dilute** portion of detection (Biotin Tracer) antibody in diluent to concentration of **0.20 ug/mL**. Add 100 uL per well. **Incubate** at room temperature for **approx**. **30 minutes -1 hour**. 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. (follow directions from manufacturer) Incubate at room temp. for color development. **Stop** the color reaction after 10 - 20 minutes by adding 100 uL of 2N Sulfuric acid to each well. Then, read plate at 450 nm after addition of stop solution.

NOTE: reliable standard curves are obtained when O.D. readings do not exceed 0.25 units for the zero standard concentration, or 2.0 units for the highest standard concentration.

NOTE: Kit can be ordered with developing reagents ( cat v# vends in 'CKC') - see page 1.

#### X-REACTIVITY DATA:

**No** measurable X-reactivity was observed @ 40-50 ng/mL with following factors:

Rat: RANTES

Mouse: RANTES; MCP-2; MCP-3, MIP-1 alpha

Human: MCP-2, MCP-3, MCP-4, MIP-1 alpha and beta; Eotaxin;

LEC.

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