REV 10/22

ANTIGENIX AMERICA Inc.

PRODUCT INFORMATION SUMMARY

Matched Antibody Pair
Anti-Human-EGF

PRODUCT No.

Purified Antibody	MP190220C CAPTURE	0.5 mg
Purified Antibody	MP190220T Tracer HRP	0.2 mL
Purified Antibody	MP190220B Tracer Biotin	0.1 mL

SPECIFICITY:

Human Epidermal Growth Factor (EGF), is a 6 kDa amino acid polypeptide. These murine monoclonal antibodies react with both native and recombinant EGF molecules and recognize different antigenic determinants.

CLONES:

Derived from hybridization of murine myeloma (SP2/0) cells with spleen cells from BALB/c mice immunized with purified, recombinant human EGF.

GENERAL PROCEDURE:

A laboratory qualified, matched monoclonal antibody pair for ELISA development is provided. One purified, lyophilized, antibody for "Capture" and HRP-labelled or Biotin "Tracer" antibody, liquid concentrate.

Capture: (Lyophilized, addirive-free)
Reconstitute with 0.5 mL distilled water.

1) Further dilute in 0.05M Carbonate buffer, pH 9.5, (or similar coating buffer supplied by customer) to suggested coating concentration of 3 ug/mL (0.3 ug/well), (customer may have to optimize). **Note:** reagents contain no preservatives. For long-term storage of unused portion, add suitable preservative or freeze small aliquots and store at -20°C.

2) Coat microwells at 100 uL per well.

3) Incubate at 4°C overnight. Wash with 0.01M PBS, Tween-20. Dry with absorbent paper.
4) Use 200 uL per well coating stabilizer (**ANTIGENIX** cat. no. **EA150**
5) Incubate at 37°C for 2 hours. Dump contents, dry with absorbent paper.

NOTE: This general procedure is provided as a guideline only. Customer may use similar procedures that are optimized to the customer's requirements.

Tracer: (Liquid concentrate) (HRP Conjugate or Biotin Conjugate) STORE @ -20 DEG. C.

SPIN-DOWN prior to opening vial to recover full contents.

1) Further **dilute** in appropriate conjugate diluent to optimized concentration (approx. 1:1000 - 1:1500, optimize). The working dilution will vary depending on assay conditions and must be determined by customer. For long-term storage, add appropriate preservative (thimerosal or similar that will not interfere with HRP/substrate reaction).

2) After samples or standards (100 uL) are added to each microwell, and incubated, washed, etc., according to customer's protocol, dispense approximately 2 drops of diluted conjugate **(tracer)** into each microwell, cover and incubate at room temp. for 60 minutes.

3) Wash the plate four times with wash solution. Add 100 uL of TMB substrate solution, cover and incubate 15 minutes at room temperature. Add 100 uL stop solution to each microwell.

4) Absorbance (HRP) is read at 450 nm (HRP)_ within 30 minutes.

Our lab has achieved: sensitivity : 20 pg/mL serum/plasma and 15 pg/mL in cell culture/urine; assay range 0-1000 pg/mL

CROSS-REACTIVITY:

Cross-reactivity with other cytokines, including IL 8, IL 1 Beta, MCP-3, TGF Beta, and Bovine Serum Albumin was not observed in quality control testing.

RESEARCH USE ONLY
NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE.

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