

ANTIGENIX AMERICA inc.

## PRODUCT INFORMATION SUMMARY

### Matched Antibody Pair Anti-Human-IL-18

Purified Antibody	MP180180C	Capture	0.5 mg
Purified Antibody-Biotin Conjugate	MP180180T	Tracer	0.1 mL

#### SPECIFICITY:

Human Interleukin-18 (IL-18), known as Interferon-Inducing factor, is a pro-inflammatory cytokine that can stimulate IFN Gamma production by NK cells in presence of bacterial LPS. These murine monoclonal antibodies react with both native and recombinant IL-18 molecules and recognize different antigenic determinants.

A matched antibody pair qualified for use in ELISA and other detection applications.

**CLONES:** A2 ( Capture) ; A10 ( biotin tracer)

Derived from hybridization of murine myeloma (SP2/0) cells with spleen cells from BALB/c mice immunized with purified, recombinant human IL-18.

#### GENERAL PROCEDURE:

A laboratory qualified, matched monoclonal antibody pair for ELISA development is provided. One purified, lyophilized, antibody for "Capture" and biotin labeled "Tracer" antibody.

**Capture:** 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 3.0 ug/mL (customer may have to optimize). **Note:** reagents contain no preservatives. For long-term storage of unused portion, add suitable preservative or store 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 or similar. - **This will block and stabilize in one step!** -Follow directions on coating stabilizer data sheet.

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:** Provided as liquid concentrate.  
( Biotin conjugate concentrate - )

1) Further dilute in appropriate conjugate diluent (PBS with 0.1% BSA) to optimized concentration. The working dilution ( approx. 1:1,000 ) for Biotin) will vary depending on assay conditions and must be optimized/ 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 into each microwell, cover and incubate at room temp. for 60 minutes.

3) Wash the plate five 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 is read at 450 nm within 30 minutes.

**SENSITIVITY:** ELISA sensitivity achieved **approx. 3.5 pg/mL**

**CROSS-REACTIVITY:**

Cross-reactivity with other cytokines, including MCP-1, IL 1 Beta, MCP-3, 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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