

## PRODUCT INFORMATION SUMMARY

### Matched Antibody Pair Anti-GM-CSF

PRODUCT No.	MP620120	
MP620120C	Purified Antibody (Capture)	0.50 mg
MP620120T	Purified Antibody-HRP Conjugate	200 uL
MP620120B	Purified Antibody-Biotin Conjugate	100 uL

#### SPECIFICITY:

Human Granulocyte Macrophage Colony Stimulating Factor (GM-CSF), is a 14 kDa polypeptide that is a potent stimulator of bone marrow myeloid cells. These murine monoclonal antibodies react with both native and recombinant GM-CSF 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 GM-CSF.

#### GENERAL PROCEDURE:

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

**Capture:** Reconstitute with 0.5 mL distilled water.  
( or provided as liquid - see vial)

1) Further dilute in 0.05M Carbonate buffer, pH 9.5, (or similar coating buffer supplied by customer) to suggested coating concentration of 10.0 ug/mL (customer may have to optimize). **Note:** reagents contain no preservatives. For long-term storage of unused portion, **freeze small aliquots** and store at -20°C.

2) Coat microwells at 100 uL per well. ( 0.5 - 1.0 ug/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. EA100 or similar.

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 -**HRP or Biotin CONJUGATE**.

**SPIN-DOWN** vial before opening, to ensure full recovery of contents

**Contents: (provided in 0.01M PBS, with 50% glycerol, .1% sodium azide)**

1) Further dilute in appropriate conjugate diluent to optimized concentration ( approx. 1: 1000 -1:1500). The working dilution will vary depending on assay conditions and must be determined by customer. **STORE UNUSED PORTIONS FROZEN @ -20 Deg. C.**

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.

**PERFORMANCE:** Sensitivity of 2 pg/mL achieved in our laboratory.  
**Recombinant standard GM-CSF is also available.**

**CROSS-REACTIVITY:**

Cross-reactivity with other cytokines, including M-CSF, IL 8, IL 1 Beta, MCP-1 (MCAF), and Bovine Serum Albumin was not observed in quality control testing.

**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 product label description.

**RESEARCH USE ONLY  
NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE.**

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