

PRODUCT INFORMATION SUMMARY

Matched Antibody Pair Anti-Human-MCP-1

Purified Antibody	MP800320C	0.50 mg
Tracer Antibody-HRP Conjugate	MP800320T	0.20 mL
Tracer Antibody -Biotin Conjugate	MP800320B	0.1 mg

SPECIFICITY:

Human Monocyte Chemotactic Protein-1 (MCP-1), is a 8.6 kDa amino acid polypeptide of the chemokine family. These murine monoclonal antibodies react with both native and recombinant MCP-1 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 MCP-1 of 8.6 kDa M.W containing 76 amino acid residues.

GENERAL PROCEDURE:

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

Capture: Reconstitute with 0.5 mL double 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 2 - 4 ug/mL (0.2 - 0.4 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. EA100} - note, DO NOT let plates dry, when using ANTIGENIX coating stabilizer - see protocol **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: (provided as Liquid concentrate) - NOTE: May be provided as unconjugated, HRP, or Biotin, as requested by customer - see vial. **Tracer should be stored FROZEN at -20 DEG. C. (AVOID multiple freeze-thaw).** HRP conjugate contains 50% glycerol and 0.01% thimerosal.

Biotin conjugate contains 0.1% sodium azide.

1) Further dilute conjugate 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. Store unused portion **FROZEN at -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 (**tracer**) 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 (ANTIGENIX cat # ES200), cover and incubate 15 minutes at room temperature. Add 100 uL stop solution to each microwell.

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

CROSS-REACTIVITY:

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

OTHER APPLICATIONS: Capture antibody clone will **neutralize** human MCP-1 at antibody concentration of 0.5 ug/mL.

Western Blot: Antibody concentration of 0.2 - 1.0 ug/mL will visualize 0.1 ug/lane human MCP-1.

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.

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