

PRODUCT INFORMATION SUMMARY

Matched Antibody Pair Anti-Human-IL-16

PRODUCT No. MP160160

Purified Antibody (BIOTIN) Tracer		0.1 mg
Purified Antibody (CAPTURE)	Mouse IgG1	0.50 mg
Purified Antibody-HRP Conjugate (TRACER)	Mouse IgG2a	0.20 mL

SPECIFICITY:

Human Interleukin 16 (IL-16) These murine monoclonal antibodies have been **affinity purified** and react with both native and recombinant IL-16 molecules and recognize different antigenic determinants, located on the C-terminal region of IL-16 molecule.

Derived from hybridization of murine myeloma (SP2/0) cells with spleen cells from BALB/c mice immunized with purified, recombinant human IL-16, selected from immunodominant region of C-terminus.

GENERAL PROCEDURE:

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

Capture: Reconstitute with 0.5 mL sterile water.
(or may be provided as liquid concentrate - 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 5 ug/mL (0.5ug/well), (customer may have to optimize). **Note:** reagents contain no preservatives. For long-term storage of unused portion, add suitable preservative (0.1 % sodium azide- to CAPTURE ONLY) or freeze small aliquots and store at -20°C. **tracer should also be stored FROZEN at -20 Deg. C. (conjugate). DO NOT Add sodium azide to tracer, as this may interfere with HRP reaction!**

2) Coat microwells at 100 uL per well, at approx. 5.0 ug/mL.

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. (ANTIGENIX coating stabilizer stabilizes and blocks in one-step. No blocking step required!)
- 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: (0.20 mL HRP Conjugate) or purified (0.2 mg) or Biotin conjugate (0.1 mg) -see vial label

1) Further dilute in appropriate conjugate diluent to optimized concentration **approx. 1:500 - 1:800**. The working dilution will vary depending on assay conditions and must be determined by customer. STORE ALIQUOTS FROZEN. **FREEZE CONJUGATE and store at -20 Deg. C. (TRACER).**

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 (Tetra-Methyl Benzidine) 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.

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.

PERFORMANCE:

Our lab has achieved sensitivity of approx. 20.0 ng/mL of human IL-16 in serum/plasma and in medium with assay range 20 - 3200 ng/mL.

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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