



## Biotin-Conjugated Mouse Anti-Human TNF- $\alpha$ Monoclonal Antibody Tracer Datasheet

**Product Name:** Biotin Conjugated mAb anti-Human TNF- $\alpha$     **Clone No.:** B1E4

**Catalogue No.:** MO-C40003TB    **Quantity:** 0.1 mL/vial x 1

**Description:** Mouse monoclonal antibody to human Tumor Necrosis Factor alpha (TNF- $\alpha$ )

**Purification:** Protein G affinity purified and conjugated with Biotin

**Product Type:** Biotin conjugated **tracer** antibody in matched antibody Pair.

**Target Protein:** Human TNF- $\alpha$

**Immunogen:** Purified recombinant human TNF- $\alpha$

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** This antibody recognizes both natural and recombinant human TNF- $\alpha$ .

**Species Reactivity:** Human, other species not tested

**Host / Isotype:** Mouse, IgG1 Kappa

**Storage Buffer Formulation:** pH 7.2 0.01M PBS in 1% gelatine and 0.1% Proclin 300.

**Storage:** Store at -20°C

**Research Area:** Cytokine, inflammation

**Background:** Tumor Necrosis Factor alpha (TNF- $\alpha$ ) is a multifunctional pro-inflammatory cytokine, mainly secreted by activated macrophages. It is implicated with a variety of biological procedures including

systemic inflammation, cell proliferation, apoptosis, lipid metabolism, and coagulation. The pleiotropic attribute of TNF- $\alpha$  regulation is associated with its ability to trigger multiple signalling pathways through its receptors, TNFR1 (p55) and TNFR2 (p75).

TNF- $\alpha$  not only contributes to the immune response to bacterial, fungal, viral and parasitic invasions, but also functions in tissue remodeling, autoimmune-diseases and the necrosis of specific tumors. TNF- $\alpha$  hyper-expression in response to some bacterial components such as LPS can cause life threatening septic shock. Recombinant TNF- $\alpha$ , in combination with chemotherapy, has been applied for treatment of soft sarcomas, melanomas and other irresectable tumors. Anti-TNF- $\alpha$  therapy has been used for treatment of rheumatoid arthritis.

**Applications:** **ELISA:** This biotin-conjugated monoclonal antibody can be used as a tracer/detection antibody in sandwich ELISA applications for human TNF- $\alpha$  detection when antibody CH8820 (Cat. No.: MO-C40003B) is used as capture antibody.

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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