



Biotin-Conjugated Mouse Anti-Human TNF- α Monoclonal Antibody Tracer Datasheet

Product Name: mAb anti-Human TNF- α (Tracer)

Clone No.: B1E4

Catalogue No.: MO-C40003TB

Quantity: 0.1 mL/vial

Description: Mouse monoclonal antibody to human Tumor Necrosis Factor alpha (TNF- α)

Purification: Protein G affinity purified and conjugated with Biotin

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

Target Protein: Human TNF- α

Immunogen: Purified recombinant human TNF- α

Fusion Myeloma: Sp2/0-Ag14

Specificity: This antibody recognizes both natural and recombinant human TNF- α .

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- α) 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- α regulation is associated with its ability to trigger multiple signalling pathways through its receptors, TNFR1 (p55) and TNFR2 (p75).

TNF- α 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- α hyper-expression in response to some bacterial components such as LPS can cause life threatening septic shock. Recombinant TNF- α , in combination with chemotherapy, has been applied for treatment of soft sarcomas, melanomas and other irresectable tumors. Anti-TNF- α 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- α 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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