



Mouse Anti-Human TNF- α Monoclonal Antibody Datasheet

Product Name: mAb anti-Human TNF- α

Clone No.: B1E4

Catalogue No.: MO-C40003E

Quantity: 0.5 mg/vial

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

Purification: Protein G affinity purified

Product Type: Primary antibody, **detection** 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 human TNF- α in ELISA and Western blot.

Species Reactivity: Human, other species not tested

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.0

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

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:

1. ELISA: When clone B1E4 is used as detection antibody and clone CH8820 (Cat. No.: MO-C40003B) is used as capture antibody in an ELISA assay that uses WHO reference material, the detection limit of the ELISA can reach 2.4pg/mL TNF- α .

2. Western Blot:



Figure: Western blot analysis of recombinant human TNF- α using anti-human TNF- α mAb B1E4.

References:

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