



LD Biopharma, Inc.
9924 Mesa Rim Road Suite B
San Diego, CA 92121
Tel: 858-876-8266
<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant anti-Human TNF α Antibody
Catalog Number: rAB-1642
Manufacturer: LD Biopharma, Inc.

Introduction

Tumor necrosis factor alpha, (TNF α) is a cell signaling protein, which involved in systemic inflammation and is one of the cytokines that make up the acute phase reaction. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4⁺ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. The primary role of TNF is in the regulation of immune cells. TNF, being an endogenous pyrogen, is able to induce fever, apoptotic cell death, cachexia, inflammation and to inhibit tumorigenesis and viral replication and respond to sepsis via IL1 & IL6 producing cells. Anti-TNF α antibodies have been developed for clinical applications, such as treatment of rheumatoid arthritis, inflamaatory bowel diseases and psoriasis, et al. As research reagents, anti-human TNF α antibody could be used for its detection or functional blocker for animal testing of human TNF α activities.

Phage-display derived anti-human TNF α specific antibody (human FN3 backbone) gene was constructed with 29 aa N-terminal T7 / His / TEV cleavage site Tag and expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: Anti-human TNF α antibody
Accession Number: None
Species: Human
Size: 40 μ g / Vial
Composition: 0.2 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

ERIC JEQUIER., *Leptin signaling, adiposite, and Engergy balance. Annals of the new york academy of sciences.* Page: 379-388. (2006)



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Duan, J. et al., *Fibronectin type III domain based monobody with high avidity*.
Biochemistry, Vol.46, No.44, pp. 12656-12664. (2007).

Hanes, J., et al., *Picomolar affinity antibodies from a fully synthetic naive library selected and evolved by ribosome display*. *Nat. Biotechnol.* 18, 1287–1292. (2000)

Applications

1. As reagent for detection of human leptin in ELISA or western blot assay. Its binding affinity was measured in the range of 30 pM.

Quality Control

Purity: > 90% by SDS-PAGE.